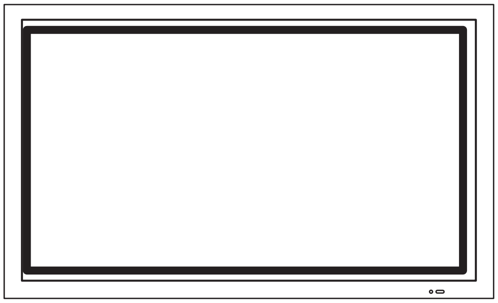
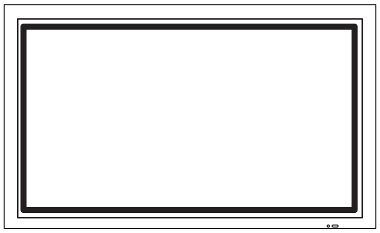
# HITACHI

# SERVICE MANUAL

**SM005**

**32PD5000/5100/5200/5300**
**42PD5000/5100/5200/5300**
**37PD5200 42PMA500E**
**55PMA550E 55PD5200**





## Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this HITACHI Plasma display.
Be sure to read cautionary items described in the manual to maintain safety before servicing.

## Service Warning

1. Since Panel Module and Front Filter are made of glass, handling the broken Module and Filter shall be taken care sufficiently in order not to be injured.
2. Replacing work shall be started after the Panel Module and the AC/DC Power Supply become sufficiently cool.
3. Special care shall be taken to the display area in order not to damage its surface.
4. The Panel Module shall not be touched with bare hand to protect its surface from stains.
5. It is recommended to use clean soft gloves during the replacing work in order to protect not only the display area of the Panel Module but also a serviceman himself.
6. The Chip Tube of Panel Module (located upper left of the back and surrounded by frame) and flexible cables connecting Panel glasses to drive circuit PWBs are very weak, so shall be taken care sufficiently not to break. If you break Chip Tube, the Panel doesn't display anything forever.

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**SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.**

# Plasma Display

**October 2003** Digital Media Division

# CAUTION FOR SAFETY

Please read this page before repair the monitor.
This page explains to following items for keep the safety of set and prevent to accident during repair work.

- **We explain by symbol at happen the damage or injury when took wrong repair.**

| | |
|---|---|
| ⚠ **Warning** | This symbol means **"possible to die or heavy damage"** |
| ⚠ **Caution** | This symbol means **"possible to damage or something will break"** |

- **We made the symbol as below, which are kind of following items.**

| | |
|---|---|
| ⚠ | This symbol means **"CAUTION"** |
| ⚡ | This symbol means **"POSSIBLE to ELECTRIC SHOCK"** |

| | |
|---|---|
| ❗ | This symbol means **"MUST"** |
| ⊘ | This symbol means **"DO NOT"** |

## ⚠ WARNING

**■ Should be follows to instructions.**

⚠ We indicates to cabinet, chassis and parts by label, which are special attention part. Please follow to note and [Safety Instructions] of User's Manual.

**■ Prevent the electric shock.**

⚡ Please take care during working because monitor has high voltage part and power supply part.
Possible to die if you tough to these place by miss take.
Please disconnect power plug during overhaul, reassemble or change parts.
You will die or take damage by electric shock if you touch to live part.

**■ Use recommended components.**

❗ Please use to same characteristic component, which is same as previous for your safety and keep reliability especially marked by ⚠ in parts list and circuit diagram.
It is reason of electric shock or fire if you use non-recommended component.

**■ Should be kept same style of wiring or component.**

❗ Monitor uses tubes or tapes, which made by insulator, and some components are keep distance from surface of PWB for safety.
Internal leads kept from hot part or high voltage part by clamper or styling, so please return to original condition for prevent to electric shock or fire.

**■ Should be done safety check after finished.**

❗ Every part (removed screws, component and wiring) should be returned to previous condition.
Check around repair position for make damage by miss take and measure the insulated impedance by meg-ohm meter.
Confirm the value of impedance, that value is more than 4M ohm.
It is reason for electric shock or fire if that value is less than 4M ohm.

**■ Nobody can check and repair to the code and combination circuit of HDCP.**

⊘ Never remove the shield case, which is assembled to the code and combination circuit of HDCP.

## PRECAUTIONS

- **How to clean the plasma screen panel of the monitor**

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.
To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

- **How to clean the cabinet of the monitor**

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.
Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

# *1. Features*

## PW1 chassis

This chassis basically constitutes just a MONITOR to use with AVC (Audio Visual Control center). But it can constitute AV MONITOR when applied the VIDEO board, and also a TV when applied the VIDEO board and the TUNER board.

### [Common Features]

- **Large-screen, high-definition plasma display panel**

The 42-inch color plasma display panel, with a resolution of 1024 (H) x 1024(V) pixels, and the 32-inch color plasma display panel with a resolution of 852(H) X 1024(V) pixels, creates a high-definition, large-screen (aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

- **High Performance Digital Processor**

A wide range of personal computer signals can be handled, from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA.

- **Easy-to-use remote control and on screen display system**

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

- **Power saving system**

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available.
When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

- **TruBass**

TruBass, SRS and (●)® symbol are trademarks of SRS Labs,Inc.
TruBass technology is incorporated under license from SRS Labs, Inc.

### [AVC MONITOR model] 42/32PD5000

- DVI-D terminal and 8pin-DIN terminal for AVC input
  (Other terminals, buttons and remote control for use are all with the AVC unit.)

### [AV MONITOR model] 42PD5100

- One mini D-sub terminal and one DVI-D terminal for RGB input
  The D-sub terminal can also receive the RGB-component by On-Screen Display control.
- One composite/S.video input terminal and two component video input terminals added with VIDEO board
  One component input is possible to switch to RGB signal input from the Menu screen.
- One SCART terminal for the signal of the European standard added with VIDEO board
  It operates as composite/S.video input and RGB input terminal, or composite video output terminal.
- One composite video output terminal as a monitoring output added with VIDEO board
- Simple type of the remote control

### [TV model] 42/37/32PD5200

- Various input/output terminals added with VIDEO board - same to above-mentioned feature of the AV MONITOR model
- Tuner and TELETEXT receiver added with TUNER board
- High performance type of the remote control

## PRECAUTIONS

- **How to clean the plasma screen panel of the monitor**

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.
To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

- **How to clean the cabinet of the monitor**

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.
Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

# *1. Features*

## PW1 chassis

This chassis basically constitutes just a MONITOR to use with AVC (Audio Visual Control center). But it can constitute AV MONITOR when applied the VIDEO board, and also a TV when applied the VIDEO board and the TUNER board.

### [Common Features]

- **Large-screen, high-definition plasma display panel**

The 37-inch color plasma display panel, with a resolution of 1024 (H) x 1024(V) pixels, creates a high-definition, large-screen (aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

- **High Performance Digital Processor**

A wide range of personal computer signals can be handled, from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA. (RGB analog input)

- **Easy-to-use remote control and on screen display system**

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

- **Power saving system**

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available.
When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

- **TruBass**

TruBass, SRS and (●)® symbol are trademarks of SRS Labs,Inc.
TruBass technology is incorporated under license from SRS Labs, Inc.

### [AVC MONITOR model] 37PD5000

- DVI-D terminal and 8pin-DIN terminal for AVC input
  (Other terminals, buttons and remote control for use are all with the AVC unit.)

### [TV model] 37PD5200

- One mini D-sub terminal and one DVI-D terminal for RGB input.
  The D-sub terminal can also receive the RGB-component by On-Screen Display control.
- One composite/S.video input terminal and two component video input terminals added with VIDEO board.
  One component input is possible to switch to RGB signal input from the Menu screen.
- One SCART terminal for the signal of the European standard added with VIDEO board.
  It operates as composite/S.video input and RGB input terminal, or composite video output terminal.
- One composite video output terminal as a monitoring output added with VIDEO board.
- Tuner and TELETEXT receiver added with TUNER board.
- High performance type of the remote control

# 2. Specifications

| | | | |
|---|---|---|---|
| **Panel** | **Display dimensions** | Approx. 32 inches (716 (H) x 399 (V) mm, diagonal 820mm) | Approx. 42 inches (922 (H) x 522 (V) mm, diagonal 1059mm) |
| | **Resolution** | 852 (H) x 1024 (V) pixels | 1024 (H) x 1024 (V) pixels |
| **Net dimensions (excluding Speakers/Stand)** | | 830 (W) x 506 (H) x 92 (D) mm | 1030 (W) x 636 (H) x 91 (D) mm |
| **Net weight (excluding Speakers/Stand)** | | 24.6kg | 34.9kg |
| **Ambient conditions** | **Temperature** | Operating : 5˚C to 35˚C, Storage : 0˚C to 40˚C | |
| | **Relative humidity** | Operating : 20% to 80%, Storage : 20% to 90% (non-condensing) | |
| **Power supply** | | AC100 - 240V, 50/60Hz | |
| **Power consumption/at standby** | | 255W / <3W | 365W / <3W |
| **Audio output** | | 12W + 12W (6Ω) | |
| **(RGB input)** | | | |
| **Input signals** | **Input terminals** | RGB1 DVI input terminal (DVI-D)<br>RGB1 audio input terminal (3.5mm Stereo Mini Jack)<br>RGB2 analog RGB input terminal (D-sub 15-pin)<br>RGB2 audio input terminal (3.5mm Stereo Mini Jack) | |
| | **Video signals** | 0.7 V/1.0 Vp-p, analog RGB (Recommended Signal)<br>480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 | |
| | **Sync signals** | H/V separate, TTL level [2KΩ]<br>H/V composite, TTL level [2KΩ]<br>Sync on green, 0.3 Vp-p [75Ω] | |
| **(Video input)** | | | |
| **Input signals** | **Input terminals** | AV1: composite video input terminal (RCA)<br>AV1: Y PB PR video input terminal (RCA)<br>AV1: L/R audio input terminal (RCA)<br>AV2: composite video input terminal (RCA)<br>AV2: Y/G PB/B PR/R video input terminal (RCA)<br>AV2: L/R audio input terminal (RCA)<br>AV3: composite video input terminal (RCA)<br>AV3: S video input terminal (RCA)<br>AV3: L/R audio input terminal (RCA)<br>AV4: composite video / S video / RGB / L/R audio input terminal (Scart) | |
| | **Video signals** | AV1: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60<br>AV2: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB<br>AV3: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV4: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV4: RGB | |
| **Video output Signal** | | OUTPUT (MONITOR): composite video monitor-output terminal (RCA)<br>OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA)<br>AV4: composite video / L/R audio output terminal (SCART) | |
| **(RF input)** | | | |
| **Input signals** | **Input terminals** | ANT : 75Ω Unbalanced | |
| | **RF Video System** | PAL B, G, H / I / D, K<br>SECAM B, G / D, K / K1<br>NTSC-M | |

## Applicable video signals for each input terminal

| Terminal | RCA/SCART | | | | DVI | | D-sub | |
|---|---|---|---|---|---|---|---|---|
| Signal | CVBS | S-video | Component | RGB | PC | STB | RGB | Component |
| AV1 | ○ | | ○ | | | | | |
| AV2 | ○ | | ○ | ○ | | | | |
| AV3 | ○ | ○ | | | | | | |
| AV4 | ○ | ○ | | ○ | | | | |
| RGB1 | | | | | ○ | ○ | | |
| RGB2 | | | | | | | ○ | ○ |

(○:Available)

# *2. Specifications*

| | | |
|---|---|---|
| **Panel** | **Display dimensions** | Approx. 37 inches (814 (H) x 445 (V) mm, diagonal 930mm) |
| | **Resolution** | 1024 (H) x 1024 (V) pixels |
| **Net dimensions (excluding Speakers/Stand)** | | 939 (W) x 573 (H) x 98 (D) mm |
| **Net weight (excluding Speakers/Stand)** | | 29.0kg |
| **Ambient conditions** | **Temperature** | Operating : 5˚C to 35˚C, Storage : 0˚C to 40˚C |
| | **Relative humidity** | Operating : 20% to 80%, Storage : 20% to 90% (non-condensing) |
| **Power supply** | | AC100 - 240V, 50/60Hz |
| **Power consumption/at standby** | | 320W / <3W |
| **Audio output** | | 12W + 12W (6Ω) |
| **(RGB input) - 37PD5000TE(*** | | |
| **Input signals** | **Input terminals** | RGB1 DVI input terminal (DVI-D)<br>RGB1 audio input terminal (3.5mm Stereo Mini Jack)<br>RGB2 analog RGB input terminal (D-sub 15-pin)<br>RGB2 audio input terminal (3.5mm Stereo Mini Jack) |
| | **Video signals** | 0.7 V/1.0 Vp-p, analog RGB (Recommended Signal)<br>480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 |
| | **Sync signals** | H/V separate, TTL level [2KΩ]<br>H/V composite, TTL level [2KΩ]<br>Sync on green, 0.3 Vp-p [75Ω] |
| **(Video input) - 37PD5000TE(*** | | |
| **Input signals** | **Input terminals** | AV1: composite video input terminal (RCA)<br>AV1: Y PB PR video input terminal (RCA)<br>AV1: L/R audio input terminal (RCA)<br>AV2: composite video input terminal (RCA)<br>AV2: Y/G PB/B PR/R video input terminal (RCA)<br>AV2: L/R audio input terminal (RCA)<br>AV3: composite video input terminal (RCA)<br>AV3: S video input terminal (RCA)<br>AV3: L/R audio input terminal (RCA)<br>AV4: composite video / S video / RGB / L/R audio input terminal (Scart) |
| | **Video signals** | AV1: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60<br>AV2: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB<br>AV3: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV4: PAL, SECAM, NTSC3.58, NTSC4.43<br>AV4: RGB |
| **Video output Signal** | | OUTPUT (MONITOR): composite video monitor-output terminal (RCA)<br>OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA)<br>AV4: composite video / L/R audio output terminal (SCART) |
| **(RF input) - 37PD5000TE(*** | | |
| **Input signals** | **Input terminals** | ANT : 75Ω Unbalanced |
| | **RF Video System** | PAL B, G, H / I / D, K<br>SECAM B, G / D, K / K1 / L, L’ |

*) 37PD5000TE:Refer to the Service Manual for 32/42PD3000(AV3000E).

## Applicable video signals for each input terminal (37PD5000TE)

| Terminal | RCA/SCART | | | | DVI | | D-sub | |
|---|---|---|---|---|---|---|---|---|
| Signal | CVBS | S-video | Component | RGB | PC | STB | RGB | Component |
| AV1 | ○ | | ○ | | | | | |
| AV2 | ○ | | ○ | ○ | | | | |
| AV3 | ○ | ○ | | | | | | |
| AV4 | ○ | ○ | | ○ | | | | |
| RGB1 | | | | | ○ | ○ | | |
| RGB2 | | | | | | | ○ | ○ |

(○:Available)

# 2. Specifications

| | | 55PMA500E | |
|---|---|---|---|
| Panel | Display dimensions | Approx. 55 inches (1229 (H) x 691 (V) mm, diagonal 1410mm) | |
| | Resolution | 1366 (H) x 768 (V) pixels | |
| Net dimensions (excluding Speakers/Stand) | | 1394 (W) x 857 (H) x 105 (D) mm | |
| Net weight (excluding Speakers/Stand) | | 63.5kg | |
| Ambient conditions | Temperature | Operating : 5°C to 35°C, Storage : 0°C to 40°C | |
| | Relative humidity | Operating : 20% to 80%, Storage : 20% to 90% (non-condensing) | |
| Power supply | | AC100 - 240V, 50/60Hz | |
| Power consumption/at standby | | 530W / <3W | |
| Audio output | | 12W + 12W (6Ω), sub woofer terminal (RCA) | |
| (RGB input) | | | |
| Input signals | Input terminals | RGB1 DVI input terminal (DVI-D)<br>RGB1 audio input terminal (3.5mm Stereo Mini Jack)<br>RGB2 analog RGB input terminal (D-sub 15-pin)<br>RGB2 audio input terminal (3.5mm Stereo Mini Jack) | |
| | Video signals | 0.7 V/1.0 Vp-p, analog RGB (Recommended Signal)<br>480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 | |
| | Sync signals | H/V composite, TTL level (2KΩ)<br>H/V separate, TTL level (2KΩ)<br>Sync on green, 0.3 Vp-p (75Ω) | |
| Recommended signal | | 47 modes | |
| (Video input) | | | |
| Input signals | Input terminals | AV1: composite video input terminal (RCA)<br>AV1: Y PB PR video input terminal (RCA)<br>AV1: L/R audio input terminal (RCA)<br>AV2: composite video input terminal (RCA)<br>AV2: Y/G PB/B PR/R video input terminal (RCA)<br>AV2: L/R audio input terminal (RCA)<br>AV3: composite video input terminal (RCA)<br>AV3: S video input terminal (RCA)<br>AV3: L/R audio input terminal (RCA)<br>AV4: composite video / S video / RGB / L/R audio input terminal (Scart) | |
| | Video signals | AV1: PAL, SECAM, NTSC3.58, NTSC4.43 | AV1: NTSC-M, PAL-M, PAL-N |
| | | AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 | |
| | | AV2: PAL, SECAM, NTSC3.58, NTSC4.43 | AV2: NTSC-M, PAL-M, PAL-N |
| | | AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB | |
| | | AV3: PAL, SECAM, NTSC3.58, NTSC4.43 | AV3: NTSC-M, PAL-M, PAL-N |
| | | AV4: PAL, SECAM, NTSC3.58, NTSC4.43 | AV4: NTSC-M, PAL-M, PAL-N |
| | | AV4: RGB | |
| Video output Signal | | OUTPUT (MONITOR): composite video monitor-output terminal (RCA)<br>OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA)<br>AV4: composite video / L/R audio monitor-output terminal (SCART) | |
| Recommended signal | | 15 modes | 13 modes |

The monitor takes at least 30 minutes to attain the status of optimal picture quality.

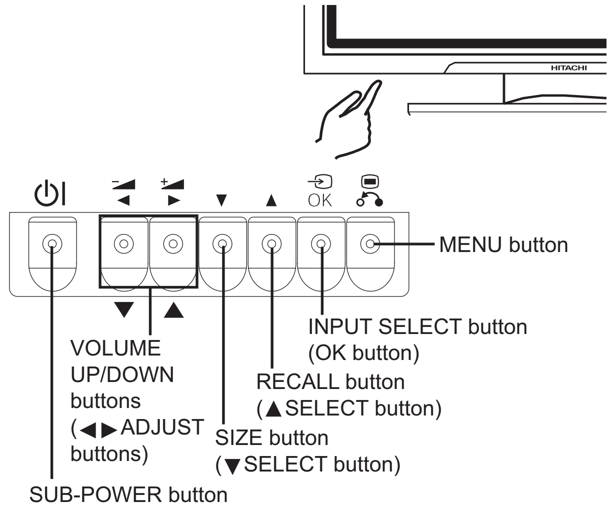
## Applicable video signals for each input terminal

| Terminal | RCA/SCART | | | | DVI | | D-sub | |
|---|---|---|---|---|---|---|---|---|
| Signal | CVBS | S-video | Component | RGB | PC | STB | RGB | Component |
| AV1 | ○ | | ○ | | | | | |
| AV2 | ○ | | ○ | ○ | | | | |
| AV3 | ○ | ○ | | | | | | |
| AV4 | ○ | ○ | | ○ | | | | |
| RGB1 | | | | | ○ | ○ | | |
| RGB2 | | | | | | | ○ | ○ |

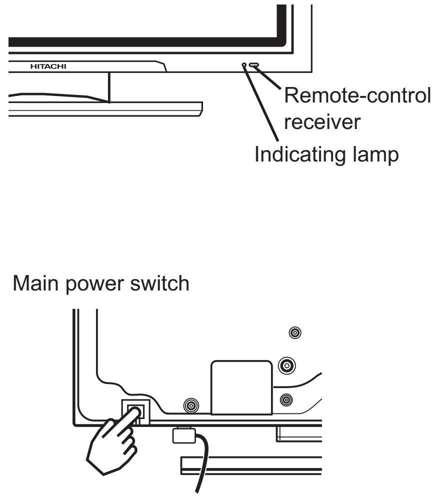
(○:Available)

# *Component names*

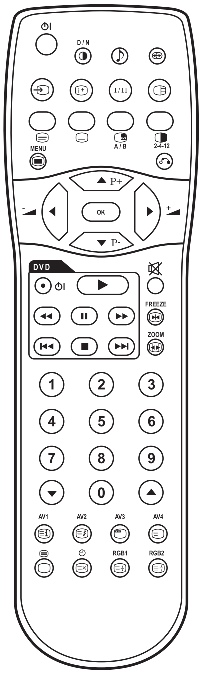
## [Main unit]


HITACHI
OK
MENU button
INPUT SELECT button
(OK button)
VOLUME
UP/DOWN
buttons
(◀ ▶ ADJUST
buttons)
RECALL button
(▲SELECT button)
SIZE button
(▼SELECT button)
SUB-POWER button

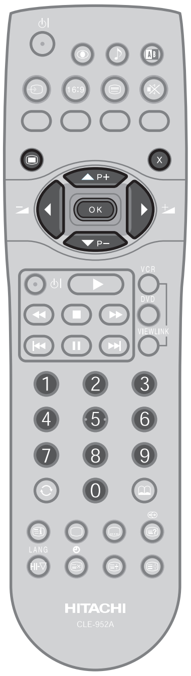
• ( ) indicates the function while the MENU is displayed on the screen.


HITACHI
Remote-control
receiver
Indicating lamp
Main power switch

## [Remote control]


D/N
MENU
A/B
2-4-12
P+
OK
P-
DVD
FREEZE
ZOOM
1
2
3
4
5
6
7
8
9
0
AV1
AV2
AV3
AV4
RGB1
RGB2

**CLE-958**
(for 37PD5000TE)


X
P+
OK
P–
VCR
DVD
1
2
3
4
5
6
7
8
9
0
LANG
HITACHI
CLE-952A

**CLE-952A**
(for 37PD5000VE)

----- packed with
AV3000E

# 3. Service points

## ● Lead free solder

This product uses lead free solder (unleaded) to help preserve the environment. Please read these instructions before attempting any soldering work.

**Caution:** Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead free solder can splatter at high temperatures (600˚C).

### ■ Lead free solder indicator

Printed circuit boards using lead free solder are engraved with an "F."

### ■ Properties of lead free solder

The melting point of lead free solder is 40-50˚C higher than leaded solder.

### ■ Servicing solder

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended.
Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

**Precautions when using leaded solder**

- Remove all lead free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead free solder has been completely melted (do not apply the soldering iron without solder).

### ■ Servicing soldering iron

A soldering iron with a temperature setting capability (temperature control function) is recommended.
The melting point of lead free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

**Recommended soldering iron:**

- Soldering iron with temperature control function (temperature range: 320-450˚C)

Recommended temperature range per part:

| Part | Soldering iron temperature |
|---|---|
| Mounting (chips) on mounted PCB | 320˚C±30˚C |
| Mounting (chips) on empty PCB | 380˚C±30˚C |
| Chassis, metallic shield, etc. | 420˚C±30˚C |

**The PWB assembly which has used lead free solder**

① FILTER PWB, SW PWB, LED/RECEIVER PWB, TACT SW PWB, SP TERMINAL(L/R) PWB
② AUDIO PWB, JOINT PWB
③ VIDEO PWB (42PD5000MA, 32/42PD5000TA)
④ TUNER PWB (32/42PD5000TA/55PD5200)

# *4. Difference table*

## ● PWB Ass'y

| PWB Ass'y | Model<br>Symbol No. of Electric Components | 32/42PD5000 TA | 32/42PD5000 MA | 32/42PD5000 VA |
|---|---|---|---|---|
| MAIN SW, FILTER, TACT SW, SP.TERMINAL(L/R), LED/RECEIVER board | x9xx, xMxx, x48x, x0xx | O | O | O |
| AUDIO board | x4xx | O | O | O |
| JOINT board | xFxx, xHxx | O | O | O |
| VIDEO board | x2xx, x3xx, x5xx, x6xx, xRxx | O | O | X |
| TUNER board | x1xx, xNxx, xTxx | O | X | X |

(O: Applied X: Not Applied)

## ● Other components (32V)

| MODEL NAME | 32PD5000TA | | 32PD5000VA | |
|---|---|---|---|---|
| SYMBOL No. | PARTS No. | DESCRIPTION | PARTS No. | DESCRIPTION |
| #01SA | 86994102 | SCREW BT BIND HEAD 3X10 | - | - |
| #01SB1 | 4525404 | SCREW M3X10 T | - | - |
| #01SB2 | 4525404 | SCREW M3X10 T | - | - |
| #02SB3 | 4525401 | SCREW M3X8 | - | - |
| #03SB4 | 4525404 | SCREW M3X10 T | - | - |
| #04SC | 4525404 | SCREW M3X10 T | - | - |
| #05 | QL23991 | EXTEND LABEL VT | - | - |
| #11 | SG35204 | CARTON BOX | SG35207 | CARTON BOX |
| A11 | JP06951 | PWB ASS'Y VIDEO | - | - |
| A22 | JP06961 | PWB ASS'Y TUNER-A | - | - |
| ETV1 | 2908801 | CONNECTOR 8P | - | - |
| ETV2 | EK01108 | WIRE (PROCESSED) 50P | - | - |
| E04 | EW08102 | CABLE SCART-RCA (3PIN) | - | - |
| NVS6 | 2169511 | NOISE FILTER ZCAT1518-0730 | - | - |
| NVS9 | 2169511 | NOISE FILTER ZCAT1518-0730 | - | - |
| N01 | QR58552 | INSTRUCTION MANUAL (EN/CH1/CH2/JP) | - | - |
| U001 | HL02041 | REMOTE CONTROL TRANSMITTER CLE-958 | - | - |

## ● Other components (42V)

| MODEL NAME | 42PD5000TA | | 42PD5000MA | | 42PD5000VA | |
|---|---|---|---|---|---|---|
| SYMBOL No. | PARTS No. | DESCRIPTION | PARTS No. | DESCRIPTION | PARTS No. | DESCRIPTION |
| #01SA | 86994102 | SCREW BT BIND HEAD 3X10 | 86994102 | SCREW BT BIND HEAD 3X10 | - | - |
| #01SB1 | 4525404 | SCREW M3X10 T | - | - | - | - |
| #01SB2 | 4525404 | SCREW M3X10 T | 4525404 | SCREW M3X10 T | - | - |
| #01 | SG35188 | CARTON BOX | SG35473 | CARTON BOX | SG35187 | CARTON BOX |
| #02 | SG35191 | TRAY (CARTON BOX) | SG33131 | TRAY (CARTON BOX) | SG35191 | TRAY (CARTON BOX) |
| #02SB3 | 4525401 | SCREW M3X8 | 4525401 | SCREW M3X8 | - | - |
| #03 | SP08506 | CUSHION TOP | SP08521 | TOP CUSHION | SP08506 | CUSHION TOP |
| #03SB4 | 4525404 | SCREW M3X10 T | 4525404 | SCREW M3X10 T | - | - |
| #04 | SP08512 | CUSHION BOTTOM | SP08531 | BOTTOM CUSHION | SP08512 | CUSHION BOTTOM |
| #04SC | 4525404 | SCREW M3X10 T | 4525404 | SCREW M3X10 T | - | - |
| #05 | QL23991 | EXTEND LABEL VT | QL23992 | EXTEND LABEL V | - | - |
| #06 | - | - | SG35691 | PAD PROTECTOR | - | - |
| #08S | SG34401 | FRONT PAD | - | - | SG34401 | FRONT PAD |
| #300 | QJ01192 | STAND ASS'Y | - | - | QJ01192 | STAND ASS'Y |
| #641 | - | - | - | - | 4522885 | SCREW 3X8 CE CP-GRIP |
| #790 | MJ03041 | BOLT M6X25 WITH WASHER | - | - | MJ03041 | BOLT M6X25 WITH WASHER |
| A11 | JP06951 | PWB ASS'Y VIDEO | JP06951 | PWB ASS'Y VIDEO | - | - |
| A22 | JP06961 | PWB ASS'Y TUNER-A | - | - | - | - |
| ETV1 | 2908801 | CONNECTOR 8P | - | - | - | - |
| ETV2 | EK01108 | WIRE (PROCESSED) 50P | - | - | - | - |
| E02 | EV01691 | CORD POWER SUPPLY | - | - | EV01691 | CORD POWER SUPPLY |
| E04 | EY01951 | ADAPTOR RCA-SCART CONVERSION | EY01951 | ADAPTOR RCA-SCART CONVERSION | - | - |
| N01 | QR58551 | INSTRUCTION MANUAL (EN/CH1/CH2/JP) | QR58552 | INSTRUCTION MANUAL (EN/CH1/CH2/JP) | - | - |
| SPU | GM01262 | SPEAKER UNIT ASS'Y DARK SILVER | - | - | GM01262 | SPEAKER UNIT ASS'Y DARK SILVER |
| U001 | HL02041 | REMOTE CONTROL TRANSMITTER CLE-958 | HL01904 | REMOTE CONTROL TRANSMITTER CP-RD4S | - | - |

# 5. New adoption technology

## [System control micom I001(M3062)]

- **Pin function table**

| No. | Pin Name | I/O | Function |
|---|---|---|---|
| 1 | OSD_DATA | O | OSD DATA |
| 2 | OSD_CLK | O | OSD CLOCK |
| 3 | AC-CLOCK | I | AC CLOCK |
| 4 | FE.AGC_O | O | AGC Voltage (F/E) |
| 5 | DATA_OUT(FC) | O | FC DATA |
| 6 | DATA_IN(FC) | I | FC DATA |
| 7 | CLK(FC) | O | FC CLOCK |
| 8 | BYTE | I | GND |
| 9 | CNVSS | I | CNVSS(FLASH) |
| 10 | DSUB COMP | O | SYNC-SW (AV1-4,D-sub_RGB: L, DVI,D-sub_Component: H) |
| 11 | RGBSW | O | SYNC-SW (AV1-4,D-sub_Component: L, DVI,D-sub_RGB: H) |
| 12 | $\overline{\text{RESET}}$ | I | RESET |
| 13 | XOUT | O | 16MHz OSC.OUT |
| 14 | VSS | I | GND |
| 15 | XIN | I | 16MHz OSC.IN |
| 16 | VCC1 | I | 5V |
| 17 | $\overline{\text{NMI}}$ | I | 5V Pull-up |
| 18 | RMCON | I | IR Signal |
| 19 | V.FREQ_2 | I | SYNC for V.Frequency Detection (Sub Picture) |
| 20 | V.FREQ_1 | I | SYNC for V.Frequency Detection (Main Picture) |
| 21 | SCV.SYNC | I | CVBS for SYNC Detection (Sub Picture) |
| 22 | IRQ | I | PANEL MODULE Condition (L: Normal, H: Error) |
| 23 | MCV.SYNC | I | CVBS for SYNC Detection (Main Picture) |
| 24 | LED_GREEN | O | L: LED ON (PowerON/PowerSave), H: LED OFF (Standby) |
| 25 | H.FREQ_2 | I | SYNC for H.Frequency Detection (Sub Picture) |
| 26 | RESERVE | - | NC |
| 27 | H.FREQ_1 | I | SYNC for H.Frequency Detection (Main Picture) |
| 28 | PDWN | O | RESERVE (LVDS POWER DOWN MODE (Panel)) : Always High |
| 29 | SCL1 | O | IIC-BUS CONTROL CLOCK (TUNER PWB) |
| 30 | SDA1 | I/O | IIC-BUS CONTROL DATA (TUNER PWB) |
| 31 | TXD1 | O | DATA (RS-232C) |
| 32 | RXD1 | I | DATA (RS-232C) |
| 33 | SCLK | I | CLOCK (FLASH MEMORY Writing) |
| 34 | BUSY | O | BUSY (FLASH MEMORY Writing) |
| 35 | TXD2 | O | RESERVE |
| 36 | RXD2 | I | RESERVE |
| 37 | SDA4 | I/O | IIC-BUS CONTROL DATA (PDP PANEL) |
| 38 | SCL4 | I/O | IIC-BUS CONTROL CLOCK (PDP PANEL) |
| 39 | PDPGO | O | PANEL MODULE Start (L: STANDBY, H: ON) |
| 40 | CPUGO | O | MPU Recoverly of PANEL MODULE |
| 41 | EPM | I | EPM (FLASH MEMORY Writing) |
| 42 | VIDEO.DET_1 | I | Detecting VIDEO PWB (L: 8pin_PWB, H: No PWB/VIDEO PWB) |
| 43 | VIDEO.DET_2 | I | Detecting VIDEO PWB (L: 8pin_PWB/VIDEO PWB, H: No PWB) |
| 44 | TUNER.DET_1 | I | Detecting TUNER PWB (L: ASIA, H: EURO/No PWB) |
| 45 | TUNER.DET_2 | I | Detecting TUNER PWB (L: ASIA/EURO, H: No PWB) |
| 46 | CE | I | CE (FLASH MEMORY Writing) |
| 47 | AV LINK | I | AV LINK Scart Connector |
| 48 | INITIALIZE | I | Initializing EEPROM (L: INIT, H: Normal) |
| 49 | D.RESET | O | RESET (DVI) |
| 50 | DVI-PD | O | DVI Control (PowerOFF,PowerSave(except DVI): L, PowerON,PowerSave(DVI): H) |

| No. | Pin Name | I/O | Function |
|---|---|---|---|
| 51 | SCDT | I | RESERVE : Always High-Impedance |
| 52 | HS-DJTR | O | Jitter Control (DVI) : Always Low |
| 53 | AUD RST | O | RESET for LIPSYNC IC |
| 54 | AUD DET | I | Detecting Connection of LIPSYNC IC (L: Yes, H: No) |
| 55 | SPRLY | O | SPEAKER ON/OFF Relay Control (L: ON(MUTE-OFF), H: OFF(MUTE-ON)) |
| 56 | MUTE | O | AUDIO MUTE (L: MUTE-OFF, H: MUTE-ON) |
| 57 | ASEL1 | O | AUDIO Signal SW (D-sub,AVC: L, VIDEO,DVI: H) |
| 58 | ASEL2 | O | AUDIO Signal SW (VIDEO,AVC: L, DVI,D-sub: H) |
| 59 | SDA2 | I/O | IIC-BUS CONTROL DATA (Sync-Sep., Audio Processor etc.) |
| 60 | SCL2 | O | IIC-BUS CONTROL CLOCK (Sync-Sep., Audio Processor etc.) |
| 61 | D-SUB COMP_SYNC.SW | O | SYNC-SW (D-sub_Component: H, Others: L) |
| 62 | VCC2 | I | 5V |
| 63 | DSUB_DET1 | I | RGB1-DET |
| 64 | VSS | I | GND |
| 65 | TRAP-MAIN | O | L: TRAP OFF (1080i,720p), H: TRAP ON (576i/p,480i/p) |
| 66 | RESERVE | - | NC |
| 67 | DVI.SW | O | L: Analog, H: Digital (DVI) |
| 68 | WSS | I | STATUS(WSS) of SCART INPUT (AV4) (L: No Signal, M: 4:3, H: 16:9) |
| 69 | TV-AFC | I | AFC Voltage (F/E) |
| 70 | FE.AGC_I | I | AGC Voltage (F/E) |
| 71 | RESERVE | - | NC |
| 72 | FE.MUTE | - | NC |
| 73 | FE.ST | - | NC |
| 74 | FE..SAP | - | NC |
| 75 | FE.MONO | - | NC |
| 76 | FE.MODE | - | NC |
| 77 | RESERVE | - | NC |
| 78 | RESERVE | - | NC |
| 79 | SCL0 | O | IIC-BUS CONTROL CLOCK (VIDEO PWB) |
| 80 | SDA0 | I/O | IIC-BUS CONTROL DATA (VIDEO PWB) |
| 81 | SCL3 | O | IIC-BUS CONTROL CLOCK (EEPROM) |
| 82 | SDA3 | I/O | IIC-BUS CONTROL DATA (EEPROM) |
| 83 | MSP.STATUS | I | MPX STATUS (L: Fixed, H: Changed) |
| 84 | MSP.RESET | O | RESET (MPX) |
| 85 | OSD_CS | O | OSD CHIP SELECT |
| 86 | FC_ENABLE | O | FC ENABLE |
| 87 | PARITY.SW | O | L: FC4, H: AVC |
| 88 | AVC1 | I | Detecting AVC Connection/Power (No Power or Without 24pin Cable : L, Others : H) |
| 89 | TEXT-RESET | O | RESET (T/TEXT) |
| 90 | AD_KEY3 | I | AD KEY3: POWER |
| 91 | AD_KEY2 | I | AD KEY2: PR UP/DWN, VOL UP/DWN, MENU |
| 92 | AD_KEY1 | I | AD KEY1: INPUT |
| 93 | TV_POWER | O | POWER ON/OFF (L: STANDBY, H: ON/PowerSave) |
| 94 | DIP.DET | I | L: Normal(No DIP), H: Abnormal(Detect DIP) |
| 95 | LED_RED | O | L: LED ON (Standby/PowerSave), H: LED OFF (PowerON) |
| 96 | AVSS | I | GND |
| 97 | FAN_ALARM | I | L: Normal, H: Abnormal |
| 98 | VREF | I | 5V |
| 99 | AVCC | I | 5V |
| 100 | AVC2 | I | Detecting AVC Connection/Power (No Power or Without 8pin Cable : L, Others : H) |

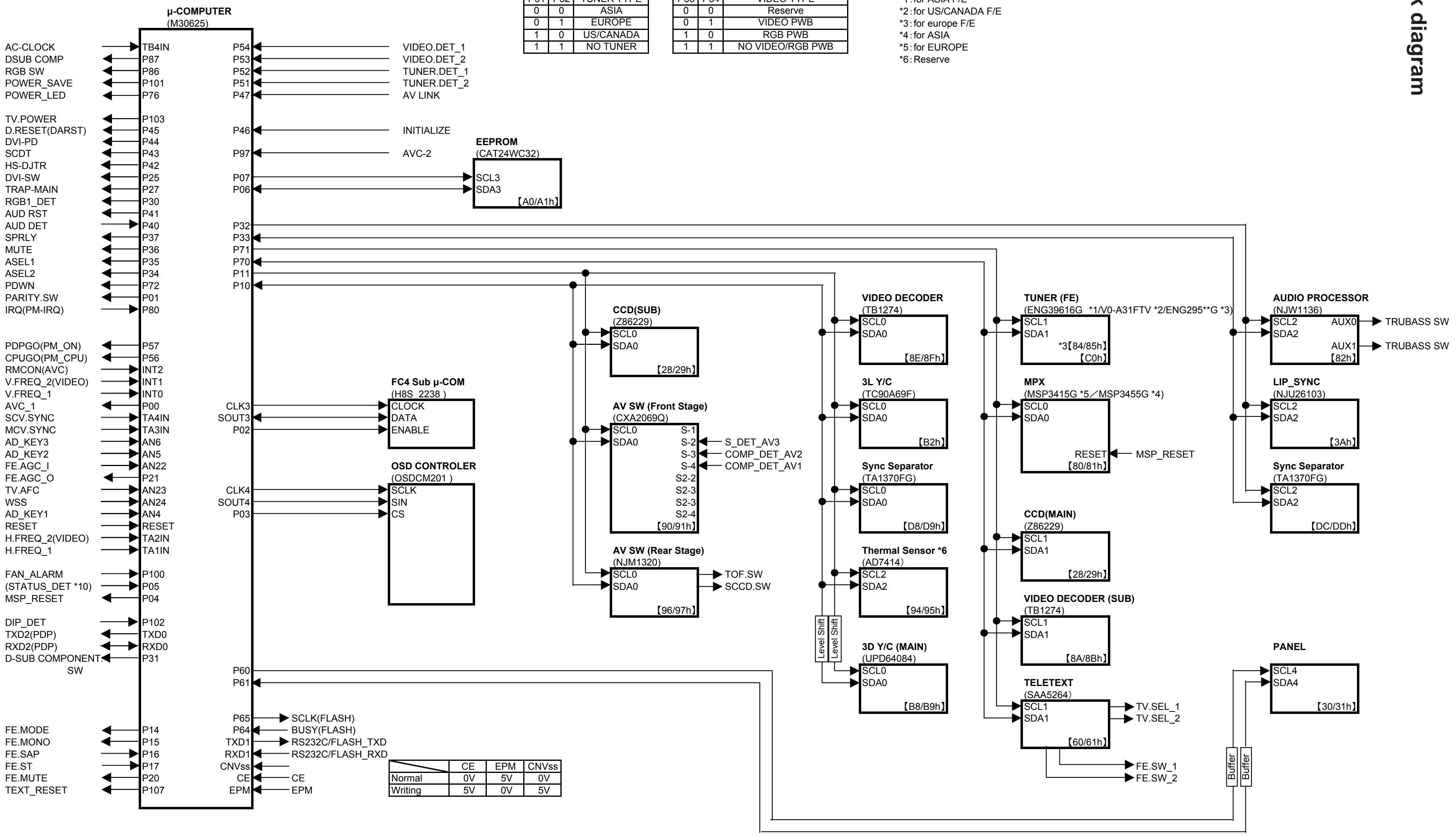
# ● Block diagram

## 32PD5000/42PD5000 (PW1)

| P51 | P52 | TUNER TYPE |
|---|---|---|
| 0 | 0 | ASIA |
| 0 | 1 | EUROPE |
| 1 | 0 | US/CANADA |
| 1 | 1 | NO TUNER |

| P53 | P54 | VIDEO TYPE |
|---|---|---|
| 0 | 0 | Reserve |
| 0 | 1 | VIDEO PWB |
| 1 | 0 | RGB PWB |
| 1 | 1 | NO VIDEO/RGB PWB |

*1 : for ASIA F/E
*2 : for US/CANADA F/E
*3 : for europe F/E
*4 : for ASIA
*5 : for EUROPE
*6 : Reserve


μ-COMPUTER
(M30625)
AC-CLOCK
TB4IN
DSUB COMP
P87
RGB SW
P86
POWER_SAVE
P101
POWER_LED
P76
TV.POWER
P103
D.RESET(DARST)
P45
DVI-PD
P44
SCDT
P43
HS-DJTR
P42
DVI-SW
P25
TRAP-MAIN
P27
RGB1_DET
P30
AUD RST
P41
AUD DET
P40
SPRLY
P37
MUTE
P36
ASEL1
P35
ASEL2
P34
PDWN
P72
PARITY.SW
P01
IRQ(PM-IRQ)
P80
PDPGO(PM_ON)
P57
CPUGO(PM_CPU)
P56
RMCON(AVC)
INT2
V.FREQ_2(VIDEO)
INT1
V.FREQ_1
INT0
AVC_1
P00
SCV.SYNC
TA4IN
MCV.SYNC
TA3IN
AD_KEY3
AN6
AD_KEY2
AN5
FE.AGC_I
AN22
FE.AGC_O
P21
TV.AFC
AN23
WSS
AN24
AD_KEY1
AN4
RESET
RESET
H.FREQ_2(VIDEO)
TA2IN
H.FREQ_1
TA1IN
FAN_ALARM
P100
(STATUS_DET *10)
P05
MSP_RESET
P04
DIP_DET
P102
TXD2(PDP)
TXD0
RXD2(PDP)
RXD0
D-SUB COMPONENT SW
P31
FE.MODE
P14
FE.MONO
P15
FE.SAP
P16
FE.ST
P17
FE.MUTE
P20
TEXT_RESET
P107
P54
VIDEO.DET_1
P53
VIDEO.DET_2
P52
TUNER.DET_1
P51
TUNER.DET_2
P47
AV LINK
P46
INITIALIZE
P97
AVC-2
P07
P06
P32
P33
P71
P70
P11
P10
CLK3
SOUT3
P02
CLK4
SOUT4
P03
P60
P61
P65
SCLK(FLASH)
P64
BUSY(FLASH)
TXD1
RS232C/FLASH_TXD
RXD1
RS232C/FLASH_RXD
CNVss
CE
CE
EPM
EPM
EEPROM
(CAT24WC32)
SCL3
SDA3
【A0/A1h】
FC4 Sub μ-COM
(H8S_2238 )
CLOCK
DATA
ENABLE
OSD CONTROLER
(OSDCM201 )
SCLK
SIN
CS
CCD(SUB)
(Z86229)
SCL0
SDA0
【28/29h】
AV SW (Front Stage)
(CXA2069Q)
SCL0
SDA0
S-1
S-2
S-3
S-4
S2-2
S2-3
S2-3
S2-4
S_DET_AV3
COMP_DET_AV2
COMP_DET_AV1
【90/91h】
AV SW (Rear Stage)
(NJM1320)
SCL0
SDA0
【96/97h】
TOF.SW
SCCD.SW
VIDEO DECODER
(TB1274)
SCL0
SDA0
【8E/8Fh】
3L Y/C
(TC90A69F)
SCL0
SDA0
【B2h】
Sync Separator
(TA1370FG)
SCL0
SDA0
【D8/D9h】
Thermal Sensor *6
(AD7414)
SCL2
SDA2
【94/95h】
Level Shift
Level Shift
3D Y/C (MAIN)
(UPD64084)
SCL0
SDA0
【B8/B9h】
TUNER (FE)
(ENG39616G *1/V0-A31FTV *2/ENG295**G *3)
SCL1
SDA1
*3【84/85h】
【C0h】
MPX
(MSP3415G *5／MSP3455G *4)
SCL0
SDA0
RESET
MSP_RESET
【80/81h】
CCD(MAIN)
(Z86229)
SCL1
SDA1
【28/29h】
VIDEO DECODER (SUB)
(TB1274)
SCL1
SDA1
【8A/8Bh】
TELETEXT
(SAA5264)
SCL1
SDA1
【60/61h】
TV.SEL_1
TV.SEL_2
FE.SW_1
FE.SW_2
AUDIO PROCESSOR
(NJW1136)
SCL2
SDA2
AUX0
AUX1
TRUBASS SW
TRUBASS SW
【82h】
LIP_SYNC
(NJU26103)
SCL2
SDA2
【3Ah】
Sync Separator
(TA1370FG)
SCL2
SDA2
【DC/DDh】
PANEL
SCL4
SDA4
【30/31h】
Buffer
Buffer

|  | CE | EPM | CNVss |
|---|---|---|---|
| Normal | 0V | 5V | 0V |
| Writing | 5V | 0V | 5V |

# *6. Adjustment*

**● How to get to Adjustment mode**

Using the front control buttons with the set turned off (standby) can activate it.

Press the SUB-POWER(⏻|) button, INPUT SELECT(⇥) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on in adjustment mode with OSD.

**● Changing data and Selecting Adjustment code**

When the set is in adjustment mode, the cursor ◀ , ▶ , ▲ , ▼ and OK buttons of the remote control or front panel may be used as the adjustment keys.

▲ , ▼ buttons are used for selecting adjustment code.

◀ , ▶ buttons are used for changing data values.

OK button is used for confirming the data.

After finishing the necessary adjustment press MENU button. Adjustment mode is released and the set returns to normal condition.

**● Memory Initialize operation**

**NOTE:** The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

**Procedure**

(1) Enter Adjustment Mode.
(2) Select MEMORY INIT adjustment code (No.704) and change the data value from 0 to 1.
(3) Activate MEMORY INIT by pressing OK button for more than 3 seconds.
(4) Select No.374 and change data value from 1 to 0.
(5) Check that the receiving channel goes to AV1. Unit is set to preset values.

## ● Service adjustment items by $I^2$C-bus control (except 32/42PD5000VA(*))

○: should be adjusted
▲: should be followed previous data

| ADJ. No. | Function | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Adjustment Items | Mode | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 0 | R DRIVE1 [TV/VIDEO/DSUB-COMP] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 1 | G DRIVE1 [TV/VIDEO/DSUB-COMP] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 2 | B DRIVE1 [TV/VIDEO/DSUB-COMP] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 3 | R DRIVE2 [TV/VIDEO/DSUB-COMP] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 4 | G DRIVE2 [TV/VIDEO/DSUB-COMP] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 5 | B DRIVE2 [TV/VIDEO/DSUB-COMP] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 6 | R DRIVE3 [TV/VIDEO/DSUB-COMP] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 7 | G DRIVE3 [TV/VIDEO/DSUB-COMP] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 8 | B DRIVE3 [TV/VIDEO/DSUB-COMP] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 9 | R DRIVE4 [TV/VIDEO/DSUB-COMP] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 10 | G DRIVE4 [TV/VIDEO/DSUB-COMP] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 11 | B DRIVE4 [TV/VIDEO/DSUB-COMP] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 12 | R DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 13 | G DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 14 | B DRIVE1 [DVI-PC/DVI-STB/DSUB-RGB] | COOL | 255 | 255 | 255 | ▲ | | | ○ |
| 15 | R DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 16 | G DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 17 | B DRIVE2 [DVI-PC/DVI-STB/DSUB-RGB] | NORMAL | 255 | 255 | 255 | ▲ | | | ○ |
| 18 | R DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 19 | G DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 20 | B DRIVE3 [DVI-PC/DVI-STB/DSUB-RGB] | WARM | 255 | 255 | 255 | ▲ | | | ○ |
| 21 | R DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 22 | G DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 23 | B DRIVE4 [DVI-PC/DVI-STB/DSUB-RGB] | BLACK & WHITE | 255 | 255 | 255 | ▲ | | | ○ |
| 24 | Black Level(RGB_AMP) | TV/VIDEO | 254 | 127 | 127 | | | | |
| 25 | Black Level(RGB_AMP) | PC | 254 | 127 | 127 | | | | |
| 26 | Reference Amplitude(RGB_AMP) | TV/VIDEO | 254 | 127 | 127 | | | | |
| 27 | Reference Amplitude(RGB_AMP) | PC | 254 | 127 | 127 | | | | |
| 28 | Display for Max. Amplitude Level | Main | - | - | - | | | | |
| 29 | Display for Max. Amplitude Level | SUB | - | - | - | | | | |
| 30 | SUB_CONTRAST (RF) | MAIN | 15 | 8 | 8 | | | | |
| 31 | SUB_CONTRAST (AV1) | MAIN/SUB COMPOSITE mode | 15 | 7 | 7 | | | | |
| 32 | SUB_CONTRAST (RF) | SUB | 15 | 8 | 8 | | | | |
| 33 | SUB_CONTRAST (AV4) | MAIN/SUB COMPOSITE mode | 15 | 7 | 7 | | | | |
| 34 | SUB_COLOR (VIDEO-PAL/SECAM) | MAIN | 15 | 6 | 6 | | | | |
| 35 | SUB_COLOR (RF-PAL/SECAM) | MAIN | 15 | 8 | 8 | | | | |
| 36 | SUB_COLOR (VIDEO-NTSC) | MAIN | 15 | 8 | 8 | | | | |
| 37 | SUB_COLOR (RF-NTSC) | MAIN | 15 | 6 | 6 | | | | |
| 38 | SUB_COLOR (VIDEO-PAL/SECAM) | SUB | 15 | 8 | 8 | | | | |
| 39 | SUB_COLOR (RF-PAL/SECAM) | SUB | 15 | 8 | 8 | | | | |
| 40 | SUB_COLOR (VIDEO-NTSC) | SUB | 15 | 8 | 8 | | | | |
| 41 | SUB_COLOR (RF-NTSC) | SUB | 15 | 8 | 8 | | | | |
| 42 | TINT (VIDEO) | MAIN | 63 | 33 | 33 | ▲ | ○ | | |
| 43 | TINT (RF) | MAIN | 63 | 33 | 33 | ▲ | ○ | | |
| 44 | TINT (VIDEO) | SUB | 63 | 33 | 33 | ▲ | ○ | | |
| 45 | TINT (RF) | SUB | 63 | 33 | 33 | ▲ | ○ | | |
| 46 | S_B-Y_ADJ | MAIN | 15 | 8 | 8 | | | | |
| 47 | S_R-Y_ADJ | MAIN | 15 | 8 | 8 | | | | |
| 48 | S_B-Y_ADJ | SUB | 15 | 8 | 8 | | | | |
| 49 | S_R-Y_ADJ | SUB | 15 | 8 | 8 | | | | |
| 50 | BPF_Q (4.43MHz) | MAIN | 3 | 3 | 3 | | | | |
| 51 | BPF_f0 (4.43MHz) | MAIN | 3 | 1 | 1 | | | | |
| 52 | Y_DL (4.5MHz) For Asia | MAIN | 10 | 5 | 5 | | | | |
| 53 | Y_DL (5.5MHz PAL/NTSC4.43) For Asia | MAIN | 10 | 3 | 3 | | | | |
| 54 | Y_DL (5.5MHz SECAM) For Asia | MAIN | 10 | 0 | 0 | | | | |
| 55 | Y_DL (6.0PAL/NTSC4.43) For Asia | MAIN | 10 | 9 | 9 | | | | |
| 56 | Y_DL (6.0SECAM) For Asia | MAIN | 10 | 9 | 9 | | | | |
| 57 | Y_DL (VIDEO PAL/NTSC4.43) | MAIN | 10 | 6 | 6 | | | | |
| 58 | Y_DL (VIDEO SECAM) | MAIN | 10 | 8 | 8 | | | | |
| 59 | Y_DL (VIDEO NTSC) | MAIN | 10 | 6 | 6 | | | | |
| 60 | BELL_f0 | MAIN | 1 | 0 | 0 | | | | |
| 61 | Y_OUT_LEVEL (VIDEO) | MAIN | 63 | 13 | 13 | | | | |
| 62 | Free | | | | | | | | |
| 63 | Y_OUT_LEVEL (TEXT) | MAIN | 63 | 0 | 0 | | | | |
| 64 | C_OUT_LEVEL (VIDEO) | MAIN | 63 | 7 | 7 | | | | |
| 65 | Free | | | | | | | | |
| 66 | C_OUT_LEVEL (TEXT) | MAIN | 63 | 0 | 0 | | | | |
| 67 | Y_OUT_LEVEL (TEXT) | SUB | 63 | 12 | 12 | | | | |
| 68 | Y_OUT_LEVEL (VIDEO) | SUB | 63 | 13 | 13 | | | | |
| 69 | Free | | | | | | | | |
| 70 | C_OUT_LEVEL (TEXT) | SUB | 63 | 7 | 7 | | | | |
| 71 | C_OUT_LEVEL (VIDEO) | SUB | 63 | 7 | 7 | | | | |
| 72 | Free | | | | | | | | |
| 73 | BPF_Q (4.43MHz) | SUB | 3 | 3 | 3 | | | | |
| 74 | BPF_f0 (4.43MHz) | SUB | 3 | 1 | 1 | | | | |
| 75 | Y_DL (4.5MHz) For Asia | SUB | 10 | 5 | 5 | | | | |
| 76 | Y_DL (5.5MHz PAL/NTSC4.43) For Asia | SUB | 10 | 2 | 2 | | | | |
| 77 | Y_DL (5.5MHz SECAM) For Asia | SUB | 10 | 0 | 0 | | | | |
| 78 | Y_DL (6.0PAL/NTSC4.43) For Asia | SUB | 10 | 7 | 7 | | | | |
| 79 | Y_DL (6.0SECAM) For Asia | SUB | 10 | 10 | 10 | | | | |
| 80 | Y_DL (VIDEO PAL/NTSC4.43) | SUB | 10 | 8 | 8 | | | | |
| 81 | Y_DL (VIDEO SECAM) | SUB | 10 | 6 | 6 | | | | |
| 82 | Y_DL (VIDEO NTSC) | SUB | 10 | 5 | 5 | | | | |
| 83 | BELL_f0 | SUB | 1 | 0 | 0 | | | | |
| 84 | C_TRAP_SW (COMB=OFF-PAL/NTSC4.43/NTSC3.58) | MAIN | 1 | 0 | 0 | | | | |
| 85 | C_TRAP_SW (COMB=OFF-PAL/NTSC4.43/NTSC3.58) | SUB | 1 | 0 | 0 | | | | |
| 86 | MVM (VIDEO) | - | 1 | 0 | 0 | | | | |
| 87 | AFC_GAIN (AV00) | - | 3 | 0 | 0 | | | | |
| 88 | AFC_GAIN (AV1) | - | 3 | 0 | 0 | | | | |

* 32/42PD5000VA : Refer to the Service Manual for PD32/42-A3000(No.003E).

○: should be adjusted
▲: should be followed previous data

| ADJ. No. | Function | | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Adjustment Items | Mode | | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 89 | AFC_GAIN (AV2) | - | | 3 | 0 | 0 | | | | |
| 90 | AFC_GAIN (AV3) | - | | 3 | 0 | 0 | | | | |
| 91 | AFC_GAIN (AV4) | - | | 3 | 0 | 0 | | | | |
| 92 | S_INHBT | - | | 1 | 0 | 0 | | | | |
| 93 | S_ID | - | | 1 | 0 | 0 | | | | |
| 94 | S_GP | - | | 3 | 0 | 0 | | | | |
| 95 | S_V_ID | - | | 1 | 0 | 0 | | | | |
| 96 | BELL/HPF | - | | 3 | 3 | 3 | | | | |
| 97 | Cb offset1 | MAIN | | 15 | 8 | 8 | | | | |
| 98 | Cr offset1 | MAIN | | 15 | 8 | 8 | | | | |
| 99 | Cb offset1 | SUB | | 15 | 8 | 8 | | | | |
| 100 | Cr offset1 | SUB | | 15 | 8 | 8 | | | | |
| 101 | Sharpness Gain(VIDEO) PAL | MAIN | | 15 | 8 | 8 | | | | |
| 102 | Sharpness Gain(RF) | MAIN | | 15 | 8 | 8 | | | | |
| 103 | Sharpness EQ(4.5MHz) | MAIN | | 3 | 1 | 1 | | | | |
| 104 | Sharpness EQ(5.5MHz) | MAIN | | 3 | 1 | 1 | | | | |
| 105 | Sharpness EQ(6.0/6.5MHz) | MAIN | | 3 | 1 | 1 | | | | |
| 106 | Sharpness EQ(VIDEO) | MAIN | | 3 | 1 | 1 | | | | |
| 107 | Sharpness f0(VIDEO) PAL | MAIN | | 3 | 2 | 2 | | | | |
| 108 | Sharpness f0(RF) | MAIN | | 3 | 2 | 2 | | | | |
| 109 | Sharpness Gain(VIDEO) PAL | SUB | | 15 | 9 | 9 | | | | |
| 110 | Sharpness Gain(RF) | SUB | | 15 | 10 | 10 | | | | |
| 111 | Sharpness EQ(4.5MHz) | SUB | | 3 | 1 | 1 | | | | |
| 112 | Sharpness EQ(5.5MHz) | SUB | | 3 | 1 | 1 | | | | |
| 113 | Sharpness EQ(6.0/6.5MHz) | SUB | | 3 | 1 | 1 | | | | |
| 114 | Sharpness EQ(VIDEO) | SUB | | 3 | 1 | 1 | | | | |
| 115 | Sharpness f0(VIDEO) PAL | SUB | | 3 | 2 | 2 | | | | |
| 116 | Sharpness f0(RF) | SUB | | 3 | 2 | 2 | | | | |
| 117 | LPF | MAIN | | 1 | 0 | 0 | | | | |
| 118 | LPF | SUB | | 1 | 0 | 0 | | | | |
| 119 | SECAM D-Trap | MAIN/SUB | | 1 | 1 | 1 | | | | |
| 120 | FILTER SW(RF) | MAIN | | 1 | 0 | 0 | | | | |
| 121 | FILTER SW(RF) | SUB | | 1 | 0 | 0 | | | | |
| 122 | NTSC Comb(Comb off) | SUB | | 1 | 1 | 1 | | | | |
| 123 | HS Phase | MAIN | | 1 | 0 | 0 | | | | |
| 124 | HS Phase | SUB | | 1 | 0 | 0 | | | | |
| 125 | P/N ID | MAIN | | 1 | 0 | 0 | | | | |
| 126 | P/N ID | SUB | | 1 | 0 | 0 | | | | |
| 127 | Y/C_SEP_MODE (COMB=OFF-PAL) | - | | 3 | 0 | 0 | | | | |
| 128 | Y-Pf$_0$ | - | | 1 | 0 | 0 | | | | |
| 129 | Y-EQ_GAIN | - | | 3 | 2 | 2 | | | | |
| 130 | Y-EQ/N.C_LIM | - | | 3 | 0 | 0 | | | | |
| 131 | Y-LPF | - | | 1 | 0 | 0 | | | | |
| 132 | V-EMPH_GAIN | - | | 7 | 1 | 1 | | | | |
| 133 | V-EMPH_N.L | - | | 7 | 3 | 3 | | | | |
| 134 | V-EMPH_CORE | - | | 3 | 3 | 3 | | | | |
| 135 | D RANGE | - | | 1 | 0 | 0 | | | | |
| 136 | DY_GAIN | MAIN NTSC mode | | 15 | 9 | 9 | | | | |
| 137 | DC_GAIN | MAIN NTSC mode | | 15 | 6 | 6 | | | | |
| 138 | VAP_GAIN | MAIN NTSC mode | | 7 | 2 | 2 | | | | |
| 139 | VAP_INV | MAIN NTSC mode | | 31 | 10 | 10 | | | | |
| 140 | YH_CORE | MAIN NTSC mode | | 3 | 0 | 0 | | | | |
| 141 | YHCGAIN | MAIN NTSC mode | | 1 | 1 | 1 | | | | |
| 142 | CDL | MAIN NTSC mode | | 7 | 3 | 3 | | | | |
| 143 | YNRK | MAIN NTSC mode | | 1 | 1 | 1 | | | | |
| 144 | YNRINV | MAIN NTSC mode | | 1 | 0 | 0 | | | | |
| 145 | YNRLIM | MAIN NTSC mode | | 3 | 1 | 1 | | | | |
| 146 | CNRK | | | 1 | 1 | 1 | | | | |
| 147 | CNRINV | | | 1 | 0 | 0 | | | | |
| 148 | CNRLIM | | | 3 | 1 | 1 | | | | |
| 149 | YPFG | | | 15 | 10 | 10 | | | | |
| 150 | SEPA_LEVEL | 480i/576i | | 3 | 2 | 2 | | | | |
| 151 | SEPA_LEVEL | 480p/576p | | 3 | 2 | 2 | | | | |
| 152 | SEPA_LEVEL | 1080i_50 | | 3 | 2 | 2 | | | | |
| 153 | SEPA_LEVEL | 1080i_60/720p | | 3 | 2 | 2 | | | | |
| 154 | AUTO_FM/AM(D11-D8) | - | | 15 | 2 | 2 | | | | |
| 155 | AUTO_FM/AM(D7-D0) | - | | 254 | 189 | 189 | | | | |
| 156 | A2_THRESHOLD(D11-D8) | - | | 15 | 0 | 0 | | | | |
| 157 | A2_THRESHOLD(D7-D0) | - | | 254 | 112 | 112 | | | | |
| 158 | PRE_AM | except 4.5MHz(except BIL/STE) | | 254 | 17 | 17 | | | | |
| 159 | VOL_SCART1 (D15-D8) | - | | 254 | 115 | 115 | | | | |
| 160 | VOL_SCART1 (D7-D5) | - | | 7 | 0 | 0 | | | | |
| 161 | PRE_SCART | - | | 254 | 31 | 31 | | | | |
| 162 | PRE_FM | 4.5MHz(JAPAN) | | 254 | 34 | 34 | | | | |
| 163 | PRE_FM | 4.5MHz(except BTSC-SAP) | | 254 | 32 | 32 | | | | |
| 164 | PRE_FM | 4.5MHz(BTSC-SAP) | | 254 | 60 | 60 | | | | |
| 165 | PRE_FM | 4.5MHz(KOREA-except BIL/STE) | | 254 | 19 | 19 | | | | |
| 166 | PRE_FM | 4.5MHz(KOREA-BIL/STE) | | 254 | 34 | 34 | | | | |
| 167 | PRE_FM | except 4.5MHz(except BIL/STE) | | 254 | 17 | 17 | | | | |
| 168 | PRE_FM | except 4.5MHz(BIL/STE) | | 254 | 27 | 27 | | | | |
| 169 | PRE_NICAM | - | | 254 | 57 | 57 | | | | |
| 170 | Screen Saver -Picture shift amount 0:1pixel 1:2pixels 2:3pixels | | | 2 | 0 | 0 | | | | |
| 171 | Thermal Sensor available 0:NO 1:YES | | | 1 | 0 | 0 | | | | |
| 172 | Video Input Function available 0:NO 1:YES | | | 1 | 1 | 1 | | | | |
| 173 | Screen Saver -Picture Shift direction 0:dia 1:cross 2:up/down 3:left/right | | | 3 | 0 | 0 | | | | |
| 174 | AUDIO Function available 0 :NO, 1 :YES | | | 1 | 1 | 1 | | | | |
| 175 | Remouto Function available 0 :NO, 1 :YES | | | 1 | 1 | 1 | | | | |
| 176 | Power Save On/Off Setting at Initialize,Reset and Shipping | 0:Change 1: Don't Change | | 1 | 0 | 0 | | | | |
| 177 | DVI-STB/RGB-COMPONENT Function available 0 :NO, 1 :YES | | | 1 | 0 | 0 | | | | |

○: should be adjusted
▲: should be followed previous data

| ADJ. | Function | | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| No. | Adjustment Items | Mode | | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 178 | Free | | | | | | | | | |
| 179 | Free | | | | | | | | | |
| 180 | Terminal Mode Function available 0:Not Available, 1:Available | RS232C | | 1 | 0 | 0 | | | | |
| 181 | Free | | | | | | | | | |
| 182 | AGC_LEVEL AGCL | ALL Mode | | 3 | 0 | 0 | | | | |
| 183 | TEXT H sync delay | - | | 127 | 0 | 0 | | | | |
| 184 | TEXT V sync delay | - | | 127 | 50 | 50 | | | | |
| 185 | TEXT_H_POSITION | - | | 254 | 42 | 42 | | | | |
| 186 | TEXT_V_POSITION | - | | 254 | 38 | 38 | | | | |
| 187 | Lower Limits value for Sync Detect of 2ms interval | For AFC at TV mode | | 254 | 25 | 25 | | | | |
| 188 | Upper Limits Value for Sync Detect of 2ms interval | For AFC at TV mode | | 254 | 40 | 40 | | | | |
| 189 | Lower Limits value for Sync Detect of 2ms interval | For Free Running at TV mode | | 254 | 30 | 30 | | | | |
| 190 | Upper Limits Value for Sync Detect of 2ms interval | For Free Running at TV mode | | 254 | 45 | 45 | | | | |
| 191 | Lower Limits value for Sync Detect of 2ms interval | For AUTO OFF at TV mode | | 254 | 25 | 25 | | | | |
| 192 | Upper Limits Value for Sync Detect of 2ms interval | For AUTO OFF at TV mode | | 254 | 35 | 35 | | | | |
| 193 | Lower Limits value for Sync Detect of 2ms interval | For Free Running at AV mode | | 254 | 30 | 30 | | | | |
| 194 | Upper Limits Value for Sync Detect of 2ms interval | For Free Running at AV mode | | 254 | 45 | 45 | | | | |
| 195 | Counting time for discrimination of fV (TB1274) | - | | 31 | 2 | 2 | | | | |
| 196 | Free | | | 1 | 0 | 0 | | | | |
| 197 | Counting time for discrimination of Sync. (M30625/TA1370) | - | | 31 | 2 | 2 | | | | |
| 198 | Input Source of fV/fH judgment (0:M30625,1:TA1370) | Component Mode | | 1 | 0 | 0 | | | | |
| 199 | Counting time for discrimination of fV (M30625/TA1370) | - | | 31 | 2 | 2 | | | | |
| 200 | Y_DL (6.5MHz PAL/NTSC4.43) For Asia | Main | | 10 | 7 | 7 | | | | |
| 201 | Y_DL (6.5MHz SECAM) For Asia | Main | | 10 | 10 | 10 | | | | |
| 202 | Y_DL (6.5MHz PAL/NTSC4.43) For Asia | Sub | | 10 | 4 | 4 | | | | |
| 203 | Y_DL (6.5MHz SECAM) For Asia | Sub | | 10 | 10 | 10 | | | | |
| 204 | PDP-BLK ON/OFF | 1:ON, 0:OFF | | 1 | 0 | 0 | | | | |
| 205 | Counting time for discrimination of fH (M30625/TA1370) | - | | 31 | 2 | 2 | | | | |
| 206 | Sharpness f0(L) | Sub | | 3 | 2 | 2 | | | | |
| 207 | NJW1320_OUT1_GAIN | VIDEO PWB | | 1 | 0 | 0 | | | | |
| 208 | NJW1320_OUT2_GAIN | VIDEO PWB | | 1 | 0 | 0 | | | | |
| 209 | Sharpness f0(L') | Sub | | 3 | 2 | 2 | | | | |
| 210 | AFC_GAIN (Except AV00 mode) | Except AV00 mode | | 3 | 0 | 0 | | | | |
| 211 | Timer Correction (for error of ceramic-filter osc.freq.) | | | 62 | 34 | 34 | | | | |
| 212 | Brightness Center (CM) | NT2/NT3/HD2/HD3/PAL2/PAL3/HD9/HD10/NT4/PAL4 | | 254 | 128 | 128 | | | | |
| 213 | Brightness Center (CM) | HD1/HD4/HD5/HD6/HD7/HD8 | | 254 | 124 | 124 | | | | |
| 214 | Brightness Center (CM) | MULTI PICTURE/NT1/PAL1 | | 254 | 128 | 128 | | | | |
| 215 | Free | | | | | | | | | |
| 216 | Contrast Center (CM) | TV/VIDEO(AV1/AV4 mode) | | 254 | 137 | 137 | | | | |
| 217 | Free | | | | | | | | | |
| 218 | Color Center (CM) | NT1/NT2/NT4/HD3/HD4/HD6/PAL4 | | 127 | 80 | 80 | | | | |
| 219 | Color Center (CM) | PAL1/PAL2/HD8/HD9 | | 127 | 80 | 80 | | | | |
| 220 | Color Center (CM) | NT3/HD1/HD2/HD5/PAL3/HD7/HD10 | | 127 | 80 | 80 | | | | |
| 221 | Tint Center (CM) | PAL1 | | 254 | 118 | 118 | | | | |
| 222 | Tint Center (CM) | NT1/NT2/NT4/HD3/HD4/HD6 | | 254 | 120 | 120 | | | | |
| 223 | Tint Center (CM) | PAL2/HD8/HD10/PAL4 | | 254 | 115 | 115 | | | | |
| 224 | Tint Center (CM) | NT3/HD1/HD2/HD5/PAL3/HD7/HD9 | | 254 | 124 | 124 | | | | |
| 225 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | TV | | 31 | 19 | 19 | | | | |
| 226 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | VIDEO | | 31 | 18 | 18 | | | | |
| 227 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | HD5/HD6 | | 31 | 11 | 11 | | | | |
| 228 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | HD1/HD4/HD7/HD8 | | 31 | 7 | 7 | | | | |
| 229 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | HD2/HD3/HD9/HD10 | | 31 | 15 | 15 | | | | |
| 230 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | NT2/NT3/PAL2/PAL3/NT4/PAL4 | | 31 | 15 | 15 | | | | |
| 231 | Center of Sharpness (HV Enhancer Gain for Y) For Europe | TEXT(2 picture) | | 31 | 7 | 7 | | | | |
| 232 | Maximum Value of Contrast at REAL/NORMAL mode | | | 254 | 188 | 188 | | | | |
| 233 | Offset Value of Contrast data at SPLIT mode | | | 120 | 90 | 90 | | | | |
| 234 | Offset value of gain for Black Stretch function | except OFF/LOW/HIGH | | 63 | 33 | 33 | | | | |
| 235 | Demonstration [White] 0-3:None 4:0 5:+10W 6:+20W 7:+30W | Mode(common) | | 7 | 5 | 5 | | | | |
| 236 | Demonstration 0:Normal 1:Peak | Mode | | 1 | 1 | - | | | | |
| 237 | Demonstration [Middle] 0:+0W 1:+10W 2:+20W 3:+30W | Mode(common) | | 3 | 3 | 3 | | | | |
| 238 | Demonstration 0:Normal 1:Peak | Mode | | 1 | - | 0 | | | | |
| 239 | Horizontal Enhance | TEXT | | 3 | 3 | 3 | | | | |
| 240 | YNR Input Level at Low level for DVI-STV Mode | 1080i-60/1080i-50/720p-60 | | 7 | 2 | 2 | | | | |
| 241 | YNR Input Level at Low level for DVI-STV Mode | 480i/480p/576i/576p/VGA | | 7 | 2 | 2 | | | | |
| 242 | CNR Input Level at Low level for DVI-STV Mode | 1080i-60/1080i-50/720p-60 | | 7 | 2 | 2 | | | | |
| 243 | CNR Input Level at Low level for DVI-STV Mode | 480i/480p/576i/576p/VGA | | 7 | 2 | 2 | | | | |
| 244 | Vertical Enhance | TEXT | | 3 | 3 | 3 | | | | |
| 245 | Demonstration Mode 0:off 1:on | | | 1 | 0 | 0 | | | | |
| 246 | Free | | | | | | | | | |
| 247 | Free | | | | | | | | | |
| 248 | HV Enhancer Gain for C | TEXT | | 31 | 0 | 0 | | | | |
| 249 | YNR(NR) Input Level | RF Mode | | 7 | 1 | 1 | | | | |
| 250 | YNR Input Level at Low level for AV1-4 Mode | VIDEO | | 7 | 3 | 3 | | | | |
| 251 | YNR Input Level at Low level for AV1-4 Mode | NT2/NT3/PAL2/PAL3/NT4/PAL4 | | 7 | 3 | 3 | | | | |
| 252 | YNR Input Level at Low level for AV1-4 Mode | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | 3 | 3 | | | | |
| 253 | YNR Input Level at Low level for AV1-4 Mode | HD2/HD3/HD9/HD10 | | 7 | 3 | 3 | | | | |
| 254 | CNR Input Level at Low level for AV1-4 Mode | VIDEO | | 7 | 3 | 3 | | | | |
| 255 | CNR Input Level at Low level for AV1-4 Mode | NT2/NT3/PAL2/PAL3/NT4/PAL4 | | 7 | 3 | 3 | | | | |
| 256 | CNR Input Level at Low level for AV1-4 Mode | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | 3 | 3 | | | | |
| 257 | CNR Input Level at Low level for AV1-4 Mode | HD2/HD3/HD9/HD10 | | 7 | 3 | 3 | | | | |
| 258 | Heat APC function available 0:NO, 1: YES | | | 1 | 1 | 1 | | | | |
| 259 | Gamma SW (0:1.0 1:2.2 2:2.8) | TV/VIDEO | | 2 | 1 | 1 | | | | |
| 260 | Gamma SW (0:1.0 1:2.2 2:2.8) | DVI-PC/DVI-STB/DSUB-RGB | | 2 | 1 | 1 | | | | |
| 261 | Select for APC function | | | 1 | 0 | 0 | | | | |
| 262 | "CCFMD" function | TV/VIDEO | | 1 | 0 | 0 | | | | |
| 263 | "CCFMD" function | DVI-PC/DVI-STB/DSUB-RGB | | 1 | 0 | 0 | | | | |
| 264 | NTSC/EBU(CCFORM) | NT1/NT2/HD3/HD4/HD6/HD8/HD10/PAL1/PAL2 | | 1 | 0 | 0 | | | | |
| 265 | NTSC/EBU(CCFORM) | TV/VIDEO/NT3/PAL3/HD1/HD2/HD5/HD7/HD9/NT4/PAL4 | | 1 | 0 | 0 | | | | |
| 266 | NTSC/EBU(CCFORM) | DVI-PC/DVI-STB/DSUB-RGB | | 1 | 0 | 0 | | | | |

# 32PD5000/42PD5000 (PW1)

○: should be adjusted
▲: should be followed previous data

| ADJ. | Function | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | Adjustment Items | Mode | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 267 | Correction for Tracking (DCBON) | TV/VIDEO-Color Temp. : COOL | 1 | 0 | 0 | | | | |
| 268 | Correction for Tracking (DCBON) | TV/AV-Col. Temp. : Nor/War | 1 | 1 | 1 | | | | |
| 269 | Correction for Tracking (DCBON) | DVI-PC/DVI-STB/DSUB-RGB | 1 | 1 | 1 | | | | |
| 270 | Color Temp. Correction | | 3 | 0 | 0 | | | | |
| 271 | Typical Value of Contrast OSD | DYNAMIC | 31 | 31 | 31 | | | | |
| 272 | PC Power Save function (0:Impossible 1:Possible) | | 1 | 1 | 1 | | | | |
| 273 | Waite Time for POWER SAVE function (s) | VIDEO/PC | 254 | 15 | 15 | | | | |
| 274 | Lower Limits value for Sync Detect of 2ms interval | For Power Save at AV mode | 254 | 5 | 5 | | | | |
| 275 | Upper Limits Value for Sync Detect of 2ms interval | For Power Save at AV mode | 254 | 200 | 200 | | | | |
| 276 | Horizontal Position of OSD | 60Hz | 15 | 7 | 7 | | | | |
| 277 | Vertical Position of OSD | 60Hz | 15 | 7 | 7 | | | | |
| 278 | PinP Function 0:PinP, 1:Infomation1, 2:Infomaiton Split | | 2 | 0 | 0 | | | | |
| 279 | Select for WIDE Mode | | 1 | 1 | 1 | | | | |
| 280 | Temperature for FAN Restart (Temp_High) | | 254 | 58 | 58 | | | | |
| 281 | Temperature for FAN Stop (Temp_Low) | | 254 | 55 | 55 | | | | |
| 282 | Internal Temperature Display ℃ | | 125 | - | - | | | | |
| 283 | PDP micom Version Display | | 255 | - | - | | | | |
| 284 | Total Operating Hours of PDP panel | | 65535 | - | - | | | | |
| 285 | Initialize function 0:Keep data, 1:Initialize | No.0-No.23,30-33,42-45,289,293,294Adj No.701-703, | 1 | 0 | 0 | | | | |
| 286 | L standard PLL gating HIGH [Europe model] | | 1 | 0 | 0 | | | | |
| 287 | Select for APC output [Except Europe model] | Main FE | 2 | 1 | 1 | | | | |
| 288 | Other New function (Shin Doga mode) 0:Off, 1:On | 50Hz | 1 | 0 | 0 | | | | |
| 289 | AGC adjustment (MFE) [Except Europe model] | MAIN | 63 | 50 | 50 | ▲ | | ○ | |
| 290 | AGC adjustment (MFE) [Europe model] | MAIN | 63 | 20 | 20 | | | | |
| 291 | AGC INPUT(MFE) | MAIN | - | - | - | | | | |
| 292 | Other New function (Shin Doga mode) 0:Off, 1:On | 70Hz(PC) | 1 | 0 | 0 | | | | |
| 293 | SUB CONTRAST AV2 | MAIN/SUB COMPOSITE mode | 15 | 8 | 8 | | | | |
| 294 | SUB CONTRAST AV3 | MAIN/SUB COMPOSITE mode | 15 | 8 | 8 | | | | |
| 295 | Contrast Center (CM) | AV2 | 254 | 137 | 137 | | | | |
| 296 | Contrast Center (CM) | AV1 | 254 | 137 | 137 | | | | |
| 297 | Brightness center (CM) offset | AV2 | 254 | 127 | 127 | | | | |
| 298 | Brightness center (CM) offset | AV1 | 254 | 127 | 127 | | | | |
| 299 | Other New function (Shin Doga mode) 0:Off, 1:On | 60Hz | 1 | 1 | 1 | | | | |
| 300 | 3D ON/OFF 0:ON,1:OFF(Through) | | 1 | 0 | 0 | | | | |
| 301 | Input Select of TA1370 0:HD1/VD1,1:HD3/VD3 | Main/Sub | 1 | 0 | 0 | | | | |
| 302 | Sharpness Gain(RF/NR) | Main/Sub | 15 | 3 | 3 | | | | |
| 303 | 3Line Y/C Main- Sub SW | 0:Main, 1: Sub | 1 | 0 | 0 | | | | |
| 304 | Offset Value(+/-) of Upper Limit (for TB1274:SUB-CONT) | Single Picture mode | 18 | 2 | 2 | | | | |
| 305 | Offset Value(+/-) of Upper Limit (for FC :RGB-AMP ) | Multi Picture mode | 18 | 2 | 2 | | | | |
| 306 | Reference Amplitude(RGB_AMP) | Multi Picture mode | 254 | 127 | 127 | | | | |
| 307 | Component Frq.(fH) Setup (0:28/31/33/45KHz,1:28/31/45KHz) | | 1 | 0 | 0 | | | | |
| 308 | Terget value of White peak Adj. | Single Picture mode | 237 | 235 | 235 | | | | |
| 309 | Sharpness Gain(S VIDEO) | Main | 15 | 7 | 7 | | | | |
| 310 | Sharpness Gain(S VIDEO) | Sub | 15 | 7 | 7 | | | | |
| 311 | Select color control (0: Asia, 1: South America) | Main/Sub | 1 | 0 | 0 | | | | |
| 312 | Sharpness Gain Main(N-PAL) | | 15 | 8 | 8 | | | | |
| 313 | Sharpness f0 Main(N-PAL) | | 3 | 2 | 2 | | | | |
| 314 | Sharpness Gain Sub (N-PAL) | | 15 | 9 | 9 | | | | |
| 315 | Sharpness f0 Sub (N-PAL) | | 3 | 2 | 2 | | | | |
| 316 | Delay Time ON/OFF for Lipsync circuit 0:Off, 1:On | | 1 | 1 | 1 | | | | |
| 317 | Sync Mode SW | | 7 | 0 | 0 | | | | |
| 318 | Set Sound System at Auto mode of Sound Sys. (0:auto,1:4.5MHz) | Main/Sub | 1 | 0 | 0 | | | | |
| 319 | Power Restart by cancelling reset from Power Save Mode in PC input | 0:keep last condition 1:restart | 1 | 0 | 0 | | | | |
| 320 | Change Europe Model for Destination of North America (OSD, Wide Mode etc.) available | 0:NO 1:YES(DAY/NIGHT etc.) | 1 | 0 | 0 | | | | |
| 321 | Count Souce for ON/OFF Timer | 0:MCU-250ms, 1:AC-50/60Hz | 1 | 0 | 0 | | | | |
| 322 | Wide Mode Selection for Europe (Normal: 5 modes, For Service: 10 modes) | 0:Normal 1:For Service | 1 | 0 | 0 | | | | |
| 323 | Forced AVC type available | 0:Normal type , 1: Forced AVC type | 1 | 0 | 0 | | | | |
| 324 | Sharpness Gain Main(M-PAL) | | 15 | 8 | 8 | | | | |
| 325 | Sharpness f0 Main(M-PAL) | | 3 | 2 | 2 | | | | |
| 326 | Sharpness Gain Sub (M-PAL) | | 15 | 9 | 9 | | | | |
| 327 | Sharpness f0 Sub (M-PAL) | | 3 | 2 | 2 | | | | |
| 328 | CNR Input Level at Low level for Dsub Comp. Mode | NT2/NT3/PAL2/PAL3/NT4/PAL4 | 7 | 2 | 2 | | | | |
| 329 | CNR Input Level at Low level for Dsub Comp. Mode | HD1/HD4/HD5/HD6/HD7/HD8 | 7 | 2 | 2 | | | | |
| 330 | CNR Input Level at Low level for Dsub Comp. Mode | HD2/HD3/HD9/HD10 | 7 | 2 | 2 | | | | |
| 331 | Sharpness Gain(VIDEO) NTSC3.58 | MAIN | 15 | 9 | 9 | | | | |
| 332 | Sharpness f0(VIDEO) NTSC3.58 | MAIN | 3 | 2 | 2 | | | | |
| 333 | Sharpness Gain(VIDEO) NTSC3.58 | SUB | 15 | 8 | 8 | | | | |
| 334 | Sharpness f0(VIDEO) NTSC3.58 | SUB | 3 | 2 | 2 | | | | |
| 335 | Sharpness Gain(VIDEO) SECAM,B/W | MAIN | 15 | 10 | 10 | | | | |
| 336 | Sharpness f0(VIDEO) SECAM,B/W | MAIN | 3 | 2 | 2 | | | | |
| 337 | Sharpness Gain(VIDEO) SECAM,B/W | SUB | 15 | 8 | 8 | | | | |
| 338 | Sharpness f0(VIDEO) SECAM,B/W | SUB | 3 | 2 | 2 | | | | |
| 339 | Sharpness Gain(VIDEO) NTSC4.43 | MAIN | 15 | 9 | 9 | | | | |
| 340 | Sharpness f0(VIDEO) NTSC4.43 | MAIN | 3 | 2 | 2 | | | | |
| 341 | Sharpness Gain(VIDEO) NTSC4.43 | SUB | 15 | 8 | 8 | | | | |
| 342 | Sharpness f0(VIDEO) NTSC4.43 | SUB | 3 | 2 | 2 | | | | |
| 343 | Brightness Limitted Function of PANEL [APSON] | | 1 | 1 | 1 | | | | |
| 344 | VsVa WAIT TIMER [RISTIM] | | 15 | 5 | 5 | | | | |
| 345 | CONTRAST initial value | Panel Life -Extend1 | 127 | 93 | 93 | | | | |
| 346 | Correcting Time Interval | Panel Life -Extend1 | 127 | 10 | 10 | | | | |
| 347 | CONTRAST additional value | Panel Life -Extend1 | 127 | 1 | 1 | | | | |
| 348 | CONTRAST initial value | Panel Life -Extend2 | 127 | 63 | 63 | | | | |
| 349 | Correcting Time Interval | Panel Life -Extend2 | 127 | 6 | 6 | | | | |
| 350 | CONTRAST additional value | Panel Life -Extend2 | 127 | 1 | 1 | | | | |
| 351 | L_PLL.GAIN | | 1 | 0 | 0 | | | | |
| 352 | Free | | | | | | | | |
| 353 | Free | | | | | | | | |
| 354 | Free | | | | | | | | |
| 355 | Free | | | | | | | | |

# 32PD5000/42PD5000 (PW1)

○: should be adjusted
▲: should be followed previous data

| ADJ. | Function | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | Adjustment Items | Mode | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 356 | SEPA_LEVEL_DSUB | 480i/576i | 3 | 2 | 2 | | | | |
| 357 | SEPA_LEVEL_DSUB | 480p/576p | 3 | 2 | 2 | | | | |
| 358 | SEPA_LEVEL_DSUB | 1080i_50 | 3 | 2 | 2 | | | | |
| 359 | SEPA_LEVEL_DSUB | 1080i_60/720p | 3 | 2 | 2 | | | | |
| 360 | HD-PHASE_DSUB | 480i/576i | 63 | 20 | 20 | | | | |
| 361 | HD-PHASE_DSUB | 480p/576p | 63 | 20 | 20 | | | | |
| 362 | HD-PHASE_DSUB | 1080i_50 | 63 | 20 | 20 | | | | |
| 363 | HD-PHASE_DSUB | 1080i_60/720p | 63 | 20 | 20 | | | | |
| 364 | Y_DL (L) | MAIN | 10 | 4 | 4 | | | | |
| 365 | Y_DL (L') | MAIN | 10 | 4 | 4 | | | | |
| 366 | Y_DL (L) | Sub | 10 | 1 | 1 | | | | |
| 367 | Y_DL (L') | Sub | 10 | 1 | 1 | | | | |
| 368 | Sharpness Gain(L) | MAIN | 15 | 10 | 10 | | | | |
| 369 | Sharpness Gain(L') | MAIN | 15 | 10 | 10 | | | | |
| 370 | Sharpness Gain(L) | SUB | 15 | 8 | 8 | | | | |
| 371 | Sharpness Gain(L') | SUB | 15 | 8 | 8 | | | | |
| 372 | Sharpness f0(L) | MAIN | 3 | 2 | 2 | | | | |
| 373 | Sharpness f0(L') | MAIN | 3 | 2 | 2 | | | | |
| 374 | BURN-IN enable/ disenable | 0:Disenable, 1:Enable | 1 | 1 | 1 | | | | |
| 375 | BURN-IN mode | | 2 | 2 | 2 | | | | |
| 376 | CM_THRESHOLD (D15-D8) | - | 254 | 0 | 0 | | | | |
| 377 | CM_THRESHOLD (D7 -D0) | - | 254 | 36 | 36 | | | | |
| 378 | Sharpness Gain(RF M) | MAIN | 15 | 11 | 11 | | | | |
| 379 | Sharpness Gain(RF M) | Sub | 15 | 11 | 11 | | | | |
| 380 | Sharpness f0 (RF M) | Main | 3 | 2 | 2 | | | | |
| 381 | Sharpness f0 (RF M) | SUB | 3 | 2 | 2 | | | | |
| 382 | Counting Value of 2ms Sync.Detect | MAIN | - | - | - | | | | |
| 383 | Counting Value of 2ms Sync.Detect | SUB | - | - | - | | | | |
| 384 | TB1274 Read Data(00h) | Main | - | - | - | | | | |
| 385 | TB1274 Read Data(01h) | Main | - | - | - | | | | |
| 386 | TB1274 Read Data(00h) | Sub | - | - | - | | | | |
| 387 | TB1274 Read Data(01h) | Sub | - | - | - | | | | |
| 388 | MSP Read Data (CNTROL ) (D15-D8 ) | | - | - | - | | | | |
| 389 | MSP Read Data (CNTROL ) (D7 -D0 ) | | - | - | - | | | | |
| 390 | MSP Read Data (STANDARD_RES) (D15-D8 ) | | - | - | - | | | | |
| 391 | MSP Read Data (STANDARD_RES) (D7 -D0 ) | | - | - | - | | | | |
| 392 | MSP Read Data (STATUS ) (D15-D8 ) | | - | - | - | | | | |
| 393 | MSP Read Data (STATUS ) (D7 -D0 ) | | - | - | - | | | | |
| 394 | TA1370G Read Data(00h) | VIDEO PWB | - | - | - | | | | |
| 395 | TA1370G Read Data(01h) | VIDEO PWB | - | - | - | | | | |
| 396 | TA1370G Read Data(00h) | FORMATTER PWB | - | - | - | | | | |
| 397 | TA1370G Read Data(01h) | FORMATTER PWB | - | - | - | | | | |
| 398 | uPD64084 Read Data(00H) | | - | - | - | | | | |
| 399 | uPD64084 Read Data(01h) | | - | - | - | | | | |
| 400 | Language (Refer to below) | | 6 | 0 | 0 | | | | |
| 401 | Hotel Mode(0:No,1:Yes) | | 1 | 0 | 0 | | | | |
| 402 | Analog Data (0:Keep EEPROM,1:Not Keep to EEPROM) | | 1 | 0 | 0 | | | | |
| 403 | Maximum Volume Limit | | 63 | 63 | 63 | | | | |
| 404 | Power Mode(0:Last mode, 1:Pos1, 2:V1, 3:V2, 4:V3, 5:V4) | | 5 | 0 | 0 | | | | |
| 405 | Channel Select(0:CCIR, 1:CHINA) | | 1 | 0 | 0 | | | | |
| 406 | Auto_sound 4.5 (0:Korea, 1:BTSC, 2:Japan) | | 2 | 0 | 0 | | | | |
| 407 | T/TEXT(0: None, 1:Yes) | | 1 | 1 | 1 | | | | |
| 408 | TEXT Language | | 7 | 0 | 0 | | | | |
| 409 | IIC BUS Data/Clock Open(0:Close, 1:Open) | | 1 | 0 | 0 | | | | |
| 410 | Channel Preset(0:VESTEL, 1:GIFU, 2:HAMA, 3:HFDM,4:AUSTRALIA) | | 4 | 1 | 1 | | | | |
| 411 | Detect and Display Tele-Cinema (0:normal 1:Tele-Cinema) | | - | - | - | | | | |
| 412 | V FREQ 60Hz Force (0:None, 1:Yes) | Main/Sub | 1 | 0 | 0 | | | | |
| 413 | COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ･･･) | Main | - | - | - | | | | |
| 414 | COLOR SYSTEM CONTROL-MODE(0:BW, 2:3.58NTSC, 3:4.43NTSC, ･･･) | Sub | - | - | - | | | | |
| 415 | Horizontal Filter SW [HHPF0] | NTSC | 1 | 0 | 0 | | | | |
| 416 | Enhancer Gain [HHPF1] | PAL | 1 | 0 | 0 | | | | |
| 417 | Enhancer Gain [HHPF2] | HD | 1 | 0 | 0 | | | | |
| 418 | Horizontal Coring Level (Enhancer Gain) AS[HECOR0_PO] | NT1-RF | 15 | - | 1 | | | | |
| 419 | Horizontal Coring Level (Enhancer Gain) AS[HECOR1_PO] | PAL1-RF / Multi picture | 15 | - | 1 | | | | |
| 420 | Horizontal Coring Level (Enhancer Gain) [HECOR2_PO] | NT1-Video | 15 | - | 1 | | | | |
| 421 | Horizontal Coring Level (Enhancer Gain) [HECOR3_PO] | PAL1-Video | 15 | - | 1 | | | | |
| 422 | Horizontal Coring Level (Enhancer Gain) [HECOR4_PO] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | 15 | - | 1 | | | | |
| 423 | Horizontal Coring Level (Enhancer Gain) [HECOR5_PO] | HD2/HD3/HD9/HD10 | 15 | - | 1 | | | | |
| 424 | Horizontal Coring Level (Enhancer Gain) [HECOR6_PO] | HD1/HD4/HD5/HD6/HD7/HD8 | 15 | - | 0 | | | | |
| 425 | Horizontal Coring Level (Enhancer Gain) [HECORPC_PO] | PC | 15 | - | 1 | | | | |
| 426 | Horizontal Coring Level (Enhancer Gain) EU[HECORE_PO] | PAL1-RF / Multi picture | 15 | - | 1 | | | | |
| 427 | Vertical Coring Level (Enhancer Gain) AS[VECOR0_PO] | NT1-RF | 15 | - | 1 | | | | |
| 428 | Vertical Coring Level (Enhancer Gain) AS[VECOR1_PO] | PAL1-RF / Multi picture | 15 | - | 1 | | | | |
| 429 | Vertical Coring Level (Enhancer Gain) [VECOR2_PO] | NT1-Video | 15 | - | 1 | | | | |
| 430 | Vertical Coring Level (Enhancer Gain) [VECOR3_PO] | PAL1-Video | 15 | - | 1 | | | | |
| 431 | Vertical Coring Level (Enhancer Gain) [VECOR4_PO] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | 15 | - | 0 | | | | |
| 432 | Vertical Coring Level (Enhancer Gain) [VECOR5_PO] | HD2/HD3/HD9/HD10 | 15 | - | 0 | | | | |
| 433 | Vertical Coring Level (Enhancer Gain) [VECOR6_PO] | HD1/HD4/HD5/HD6/HD7/HD8 | 15 | - | 0 | | | | |
| 434 | Vertical Coring Level (Enhancer Gain) [VECORPC_PO] | PC | 15 | - | 0 | | | | |
| 435 | Vertical Coring Level (Enhancer Gain) EU[VECORE_PO] | PAL1-RF / Multi picture | 15 | - | 0 | | | | |
| 436 | Horizontal Coring Level (Enhancer Gain) AS[HECOR0_P1] | NT1-RF | 15 | 1 | - | | | | |
| 437 | Horizontal Coring Level (Enhancer Gain) AS[HECOR0_P2] | PAL1-RF / Multi picture | 15 | 1 | - | | | | |
| 438 | Horizontal Coring Level (Enhancer Gain) [HECOR0_P3] | NT1-Video | 15 | 1 | - | | | | |
| 439 | Horizontal Coring Level (Enhancer Gain) [HECOR0_P4] | PAL1-Video | 15 | 1 | - | | | | |
| 440 | Horizontal Coring Level (Enhancer Gain) [HECOR0_P5] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | 15 | 1 | - | | | | |
| 441 | Horizontal Coring Level (Enhancer Gain) [HECOR0_P6] | HD2/HD3/HD9/HD10 | 15 | 1 | - | | | | |
| 442 | Horizontal Coring Level (Enhancer Gain) [HECOR0_P7] | HD1/HD4/HD5/HD6/HD7/HD8 | 15 | 0 | - | | | | |
| 443 | Horizontal Coring Level (Enhancer Gain) [HECORPC_P1] | PC | 15 | 1 | - | | | | |
| 444 | Horizontal Coring Level (Enhancer Gain) EU[HECORE_P1] | PAL1-RF / Multi picture | 15 | 1 | - | | | | |

○: should be adjusted
▲: should be followed previous data

| ADJ. No. | Function | | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Adjustment Items | Mode | | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 445 | Vertical Coring Level (Enhancer Gain) AS[VECOR0_P1] | NT1-RF | | 15 | 1 | - | | | | |
| 446 | Vertical Coring Level (Enhancer Gain) AS[VECOR0_P2] | PAL1-RF / Multi picture | | 15 | 1 | - | | | | |
| 447 | Vertical Coring Level (Enhancer Gain) [VECOR0_P3] | NT1-Video | | 15 | 1 | - | | | | |
| 448 | Vertical Coring Level (Enhancer Gain) [VECOR0_P4] | PAL1-Video | | 15 | 1 | - | | | | |
| 449 | Vertical Coring Level (Enhancer Gain) [VECOR0_P5] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | | 15 | 0 | - | | | | |
| 450 | Vertical Coring Level (Enhancer Gain) [VECOR0_P6] | HD2/HD3/HD9/HD10 | | 15 | 0 | - | | | | |
| 451 | Vertical Coring Level (Enhancer Gain) [VECOR0_P7] | HD1/HD4/HD5/HD6/HD7/HD8 | | 15 | 0 | - | | | | |
| 452 | Vertical Coring Level (Enhancer Gain) [VECORPC_P1] | PC | | 15 | 0 | - | | | | |
| 453 | Vertical Coring Level (Enhancer Gain) EU[VECORE_P1] | PAL1-RF / Multi picture | | 15 | 0 | - | | | | |
| 454 | YFRNR Input Gain (Main) 2 pictures [MYNRG0] | HD-except HD | | 7 | 1 | 1 | | | | |
| 455 | <HD-NTSC,HD-PAL(Sub) [MYNRG1] | HD-HD | | 7 | 4 | 4 | | | | |
| 456 | 4 pictures [MYNRG2] | NT-*/PAL-* | | 7 | 1 | 1 | | | | |
| 457 | [MYNRG3] | HD-* | | 7 | 4 | 4 | | | | |
| 458 | YFRNR Input Gain (Sub) [YCNRG0] | 2 pictures | | 7 | 4 | 4 | | | | |
| 459 | [YCNRG1] | 4pictures/12pictures | | 7 | 1 | 1 | | | | |
| 460 | CFRNR Input Gain (Main) 2 pictures [MCNRG0] | HD-except HD | | 7 | 3 | 3 | | | | |
| 461 | <HD-NTSC,HD-PAL(Sub) [MCNRG1] | HD-HD | | 7 | 4 | 4 | | | | |
| 462 | [MCNRG2] | NT-*/PAL-* | | 7 | 4 | 4 | | | | |
| 463 | [MCNRG3] | HD-* | | 7 | 4 | 4 | | | | |
| 464 | CFRNR Input Gain (Sub) [SCNRG0] | 2 pictures | | 7 | 3 | 3 | | | | |
| 465 | [SCNRG1] | 4pictures/12pictures | | 7 | 4 | 4 | | | | |
| 466 | YFRNR Transition Level (Main/Sub) [MYNRP0] | NT1/ PAL1 / Multi picture | | 7 | 0 | 0 | | | | |
| 467 | [MYNRP5] | NT1/PAL1-Video | | 7 | 0 | 0 | | | | |
| 468 | [MYNRP6] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | | 7 | 0 | 0 | | | | |
| 469 | [MYNRP7] | HD2/HD3/HD9/HD10 | | 7 | 0 | 0 | | | | |
| 470 | [MYNRP8] | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | 0 | 0 | | | | |
| 471 | CFRNR Transition Level (Main/Sub) [MCNRP0] | NT1/ PAL1 / Multi picture | | 7 | 2 | 2 | | | | |
| 472 | [MCNRP5] | NT1/PAL1-Video | | 7 | 2 | 2 | | | | |
| 473 | [MCNRP6] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | | 7 | 2 | 2 | | | | |
| 474 | [MCNRP7] | HD2/HD3/HD9/HD10 | | 7 | 2 | 2 | | | | |
| 475 | [MCNRP8] | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | 0 | 0 | | | | |
| 476 | Vertical Enhancer Gain for Y/G [YVEG0_P0] | NTSC/PAL(-except RF) | | 15 | - | 8 | | | | |
| 477 | [YVEG1_P0] | HD2/HD3/HD9/HD10 | | 15 | - | 12 | | | | |
| 478 | [YVEG2_P0] | HD1/HD4/HD5/HD6/HD7/HD8 | | 15 | - | 8 | | | | |
| 479 | AS[YVEG3_P0] | PAL1-RF / Multi picture | | 15 | - | 8 | | | | |
| 480 | EU[YVEG0_E_P0] | PAL1-RF / Multi picture | | 15 | - | 8 | | | | |
| 481 | Vertical DSB Gain For Y/G [YVDSBG0_P0] | NTSC/ PAL / Multi picture | | 3 | - | 0 | | | | |
| 482 | [YVDSBG1_P0] | HD2/HD3/HD9/HD10 | | 3 | - | 0 | | | | |
| 483 | [YVDSBG2_P0] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | - | 0 | | | | |
| 484 | Vertical DSB Coring for Y/G [YVDSBG0_P0] | NTSC/ PAL / Multi picture | | 7 | - | 0 | | | | |
| 485 | [YVDSBG1_P0] | HD | | 7 | - | 3 | | | | |
| 486 | Vertical Enhancer Clip for Y/G 0:LTI [YVECLP0_P0] | NTSC/ PAL / Multi picture | | 1 | - | 1 | | | | |
| 487 | [YVECLP1_P0] | HD | | 1 | - | 1 | | | | |
| 488 | Vertical Clip Offset Level [YVECLP0_P0] | NTSC/ PAL / Multi picture | | 15 | - | 7 | | | | |
| 489 | [YVECLP1_P0] | HD | | 15 | - | 1 | | | | |
| 490 | Vertical Non Linear Peaking for Y/G [YVNLP0_P0] | NTSC/ PAL / Multi picture | | 63 | - | 0 | | | | |
| 491 | [YVNLP1_P0] | HD | | 63 | - | 0 | | | | |
| 492 | Horizontal HPF Peak Freq. SW for Y/G [YHHPF0_P0] | NTSC/ PAL / Multi picture | | 3 | - | 2 | | | | |
| 493 | [YHHPF1_P0] | HD2/HD3/HD9/HD10 | | 3 | - | 1 | | | | |
| 494 | [YHHPF2_P0] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | - | 1 | | | | |
| 495 | Horizontal Enhancer Gain for Y/G [YHEG0_P0] | NTSC/PAL(-except RF) | | 15 | - | 15 | | | | |
| 496 | [YHEG1_P0] | HD2/HD3/HD9/HD10 | | 15 | - | 15 | | | | |
| 497 | [YHEG2_P0] | HD1/HD4/HD5/HD6/HD7/HD8 | | 15 | - | 0 | | | | |
| 498 | AS[YHEG3_P0] | PAL1-RF / Multi picture | | 15 | - | 15 | | | | |
| 499 | EU[YHEG0_E_P0] | PAL1-RF / Multi picture | | 15 | - | 15 | | | | |
| 500 | Horizontal DSB Gain For Y/G [YHDSBG0_P0] | NTSC/ PAL / Multi picture | | 3 | - | 2 | | | | |
| 501 | [YHDSBG1_P0] | HD2/HD3/HD9/HD10 | | 3 | - | 0 | | | | |
| 502 | [YHDSBG2_P0] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | - | 0 | | | | |
| 503 | Horizontal DSB Coring for Y/G [YHDSBC0_P0] | NTSC/ PAL / Multi picture | | 7 | - | 4 | | | | |
| 504 | [YHDSBC1_P0] | HD | | 7 | - | 0 | | | | |
| 505 | Horizontal Enhancer Clip for Y/G 0:LTI [YHECLP0_P0] | NTSC/ PAL / Multi picture | | 1 | - | 0 | | | | |
| 506 | [YHECLP1_P0] | HD | | 1 | - | 0 | | | | |
| 507 | Horizontal Clip Offset Level for Y/G AS[YHECLPL0_P0] | RF / Multi picture | | 15 | - | 2 | | | | |
| 508 | AS[YHECLPL1_P0] | NT1-except RF / PAL1-except RF | | 15 | - | 2 | | | | |
| 509 | [YHECLPL2_P0] | HD | | 15 | - | 1 | | | | |
| 510 | EU[YHECLPL0_E_P0] | RF / Multi picture | | 15 | - | 4 | | | | |
| 511 | EU[YHECLPL1_E_P0] | NT1-except RF / PAL1-except RF | | 15 | - | 4 | | | | |
| 512 | Horizontal Non Linear Peaking for Y/G [YHNLP0_P0] | NTSC/ PAL / Multi picture | | 63 | - | 0 | | | | |
| 513 | [YHNLP1_P0] | HD | | 63 | - | 0 | | | | |
| 514 | Coring Amplitude for Y/G [YCOR0_PO] | NT1-RF/ PAL1-RF / Multi picture | | 7 | - | 7 | | | | |
| 515 | [YCOR1_PO] | NT1-Video / PAL1-Video | | 7 | - | 5 | | | | |
| 516 | [YCOR2_PO] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | | 7 | - | 3 | | | | |
| 517 | [YCOR3_PO] | HD2/HD3/HD9/HD10 | | 7 | - | 1 | | | | |
| 518 | [YCOR4_PO] | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | - | 1 | | | | |
| 519 | Vertical Enhancer Gain for Y/G [YVEG0_P1] | NTSC/PAL(-except RF) | | 15 | 8 | - | | | | |
| 520 | [YVEG1_P1] | HD2/HD3/HD9/HD10 | | 15 | 12 | - | | | | |
| 521 | [YVEG2_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 15 | 8 | - | | | | |
| 522 | AS[YVEG3_P1] | PAL1-RF / Multi picture | | 15 | 8 | - | | | | |
| 523 | EU[YVEG0_E_P1] | PAL1-RF / Multi picture | | 15 | 8 | - | | | | |
| 524 | Vertical DSB Gain for Y/G [YVDSBG0_P1] | NTSC/ PAL / Multi picture | | 3 | 0 | - | | | | |
| 525 | [YVDSBG1_P1] | HD2/HD3/HD9/HD10 | | 3 | 0 | - | | | | |
| 526 | [YVDSBG2_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | 0 | - | | | | |
| 527 | Vertical DSB Coring for Y/G [YVDSBC0_P1] | NTSC/ PAL / Multi picture | | 7 | 0 | - | | | | |
| 528 | [YVDSBC1_P1] | HD | | 7 | 3 | - | | | | |
| 529 | Vertical Enhancer Clip for Y/G 0:LTI [YVECLP0_P1] | NTSC/ PAL / Multi picture | | 1 | 1 | - | | | | |
| 530 | [YVECLP1_P1] | HD | | 1 | 1 | - | | | | |
| 531 | Vertical Clip Offset Level for Y/G [YVECLP0_P1] | NTSC/ PAL / Multi picture | | 15 | 7 | - | | | | |
| 532 | [YVECLP1_P1] | HD | | 15 | 1 | - | | | | |
| 533 | Vertical Non Linear Peaking for Y/G [YVNLP0_P1] | NTSC/ PAL / Multi picture | | 63 | 0 | - | | | | |

○: should be adjusted
▲: should be followed previous data

| ADJ. No. | Function | | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Adjustment Items | Mode | | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 534 | [YVNLP1_P1] | HD | | 63 | 0 | - | | | | |
| 535 | Horizontal HPF Peak Freq. SW for Y/G [YHHPF0_P1] | NTSC/ PAL / Multi picture | | 3 | 2 | - | | | | |
| 536 | [YHHPF1_P1] | HD2/HD3/HD9/HD10 | | 3 | 1 | - | | | | |
| 537 | [YHHPF2_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | 1 | - | | | | |
| 538 | Horizontal Enhancer Gain for Y/G [YHEG0_P1] | NTSC/PAL(-except RF) | | 15 | 15 | - | | | | |
| 539 | [YHEG1_P1] | HD2/HD3/HD9/HD10 | | 15 | 15 | - | | | | |
| 540 | [YHEG2_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 15 | 15 | - | | | | |
| 541 | AS[YHEG3_P1] | PAL1-RF / Multi picture | | 15 | 15 | - | | | | |
| 542 | EU[YHEG0_E_P1] | PAL1-RF / Multi picture | | 15 | 15 | - | | | | |
| 543 | Horizontal DSB Gain for Y/G [YHDSBG0_P1] | NTSC/ PAL / Multi picture | | 3 | 2 | - | | | | |
| 544 | [YHDSBG1_P1] | HD2/HD3/HD9/HD10 | | 3 | 0 | - | | | | |
| 545 | [YHDSBG2_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 3 | 0 | - | | | | |
| 546 | Horizontal DSB Coring for Y/G [YHDSBC0_P1] | NTSC/ PAL / Multi picture | | 7 | 7 | - | | | | |
| 547 | [YHDSBC1_P1] | HD | | 7 | 0 | - | | | | |
| 548 | Horizontal Enhancer Clip for Y/G 0:LTI [YHDSBC0_P1] | NTSC/ PAL / Multi picture | | 1 | 0 | - | | | | |
| 549 | [YHDSBC1_P1] | HD | | 1 | 0 | - | | | | |
| 550 | Horizontal Clip Offset Level for Y/G AS[YHCLPL0_P1] | RF / Multi picture | | 15 | 1 | - | | | | |
| 551 | AS[YHCLPL1_P1] | NT1-except RF/PAL1-except RF | | 15 | 1 | - | | | | |
| 552 | [YHECLPL2_P1] | HD | | 15 | 0 | - | | | | |
| 553 | EU[YHECLPL0_E_P1] | RF / Multi picture | | 15 | 4 | - | | | | |
| 554 | EU[YHECLPL1_E_P1] | NT1-except RF/PAL1-except RF | | 15 | 4 | - | | | | |
| 555 | Horizontal Non Linear Peaking for Y/G [YHNLP0_P1] | NTSC/ PAL / Multi picture | | 63 | 0 | - | | | | |
| 556 | [YHNLP1_P1] | HD | | 63 | 0 | - | | | | |
| 557 | Coring Amplitude for Y/G [YC0R0_P1] | NT1-RF/PAL1-RF / Multi picture | | 7 | 7 | - | | | | |
| 558 | [YC0R1_P1] | NT1-Video/PAL1-Video | | 7 | 5 | - | | | | |
| 559 | [YC0R2_P1] | NT2/NT3/NT4/PAL2/PAL3/PAL4 | | 7 | 3 | - | | | | |
| 560 | [YC0R3_P1] | HD2/HD3/HD9/HD10 | | 7 | 1 | - | | | | |
| 561 | [YC0R4_P1] | HD1/HD4/HD5/HD6/HD7/HD8 | | 7 | 1 | - | | | | |
| 562 | Vertical Enhancer Gain for B-Y/B, R-Y/R [CVEG0] | NTSC/ PAL / Multi picture | | 15 | 15 | 15 | | | | |
| 563 | [CVEG1] | HD | | 15 | 9 | 9 | | | | |
| 564 | Vertical DSB Gain for B-Y/B, R-Y/R [CVDSBG0] | NTSC/ PAL / Multi picture | | 3 | 0 | 0 | | | | |
| 565 | [CVDSBG1] | HD | | 3 | 0 | 0 | | | | |
| 566 | Vertical DSB Coring for B-Y/B, R-Y/R [CVDSBC0] | NTSC/ PAL / Multi picture | | 7 | 0 | 0 | | | | |
| 567 | [CVDSBC1] | HD | | 7 | 0 | 0 | | | | |
| 568 | Vertical Enhancer Clip for B-Y/B, R-Y/R 0:CTI [CVECLP0] | NTSC/ PAL / Multi picture | | 1 | 0 | 0 | | | | |
| 569 | [CVECLP1] | HD | | 1 | 0 | 0 | | | | |
| 570 | Horizontal HPF Peak Freq. SW for B-Y/B, R-Y/R [CHHPF0] | NTSC/ PAL / Multi picture | | 3 | 2 | 2 | | | | |
| 571 | [CHHPF1] | HD | | 3 | 2 | 2 | | | | |
| 572 | Horizontal Enhancer Gain for B-Y/B, R-Y/R [CHEG0] | NTSC/ PAL / Multi picture | | 15 | 15 | 15 | | | | |
| 573 | [CHEG1] | HD | | 15 | 9 | 9 | | | | |
| 574 | Horizontal DSB Gain for B-Y/B, R-Y/R [CHDSBG0] | NTSC/ PAL / Multi picture | | 3 | 0 | 0 | | | | |
| 575 | [CHDSBG1] | HD | | 3 | 0 | 0 | | | | |
| 576 | Horizontal DSB Coring for B-Y/B, R-Y/R [CHDSBC0] | NTSC/ PAL / Multi picture | | 7 | 0 | 0 | | | | |
| 577 | [CHDSBC1] | HD | | 7 | 0 | 0 | | | | |
| 578 | Horizontal Enhancer Clip for B-Y/B, R-Y/R 0:CTI [CHECLP0] | NTSC/ PAL / Multi picture | | 1 | 0 | 0 | | | | |
| 579 | [CHECLP1] | HD | | 1 | 0 | 0 | | | | |
| 580 | Coring Amplitude for B-Y/B, R-Y/R [CC0R0] | NTSC/ PAL / Multi picture | | 7 | 1 | 1 | | | | |
| 581 | [CC0R1] | HD | | 7 | 1 | 1 | | | | |
| 582 | B-Y Clamp offset [Except D Sub Component] | NT1/2/3,HD2/3,PAL1/2/3,HD9/10 | | 255 | 128 | 128 | | | | |
| 583 | R-Y Clamp offset [Except D Sub Component] | NT1/2/3,HD2/3,PAL1/2/3,HD9/10 | | 255 | 128 | 128 | | | | |
| 584 | B-Y Clamp offset [Except D Sub Component] | HD1/4,HD7/8 | | 255 | 128 | 128 | | | | |
| 585 | R-Y Clamp offset [Except D Sub Component] | HD1/4,HD7/8 | | 255 | 128 | 128 | | | | |
| 586 | B-Y Clamp offset [Except D Sub Component] | HD5/6 | | 255 | 128 | 128 | | | | |
| 587 | R-Y Clamp offset [Except D Sub Component] | HD5/6 | | 255 | 128 | 128 | | | | |
| 588 | B-Y Clamp offset [D Sub Component] | NT1/2/3,HD2/3,PAL1/2/3,HD9/10 | | 255 | 128 | 128 | | | | |
| 589 | R-Y Clamp offset [D Sub Component] | NT1/2/3,HD2/3,PAL1/2/3,HD9/10 | | 255 | 128 | 128 | | | | |
| 590 | B-Y Clamp offset [D Sub Component] | HD1/4,HD7/8 | | 255 | 128 | 128 | | | | |
| 591 | R-Y Clamp offset [D Sub Component] | HD1/4,HD7/8 | | 255 | 128 | 128 | | | | |
| 592 | B-Y Clamp offset [D Sub Component] | HD5/6 | | 255 | 128 | 128 | | | | |
| 593 | R-Y Clamp offset [D Sub Component] | HD5/6 | | 255 | 128 | 128 | | | | |
| 594 | B-Y Clamp offset [DVI-STB] | 480i/576i/480p/576p/VGA | | 255 | 128 | 128 | | | | |
| 595 | R-Y Clamp offset [DVI-STB] | 480i/576i/480p/576p/VGA | | 255 | 128 | 128 | | | | |
| 596 | B-Y Clamp offset [DVI-STB] | 1080i-50/1080i-60 | | 255 | 128 | 128 | | | | |
| 597 | R-Y Clamp offset [DVI-STB] | 1080i-50/1080i-60 | | 255 | 128 | 128 | | | | |
| 598 | B-Y Clamp offset [DVI-STB] | 720p-60 | | 255 | 128 | 128 | | | | |
| 599 | R-Y Clamp offset [DVI-STB] | 720p-60 | | 255 | 128 | 128 | | | | |
| 600 | Y OUT LEVEL M (4.5) For Asia | Main | | 63 | 15 | 15 | | | | |
| 601 | Y OUT LEVEL B/G (5.5) For Asia | Main | | 63 | 13 | 13 | | | | |
| 602 | Y OUT LEVEL D/K (6.5) For Asia | Main | | 63 | 16 | 16 | | | | |
| 603 | Y OUT LEVEL I (6.0) For Asia | Main | | 63 | 14 | 14 | | | | |
| 604 | Y OUT LEVEL B/G (5.5) For Europe | Main | | 63 | 13 | 13 | | | | |
| 605 | Y OUT LEVEL D/K (6.5) For Europe | Main | | 63 | 16 | 16 | | | | |
| 606 | Y OUT LEVEL I (6.0) For Europe | Main | | 63 | 19 | 19 | | | | |
| 607 | Y OUT LEVEL L (6.5) For Europe | Main | | 63 | 13 | 13 | | | | |
| 608 | Y OUT LEVEL L' (6.1) For Europe | Main | | 63 | 12 | 12 | | | | |
| 609 | Y OUT LEVEL M (4.5) For US | Main | | 63 | 13 | 13 | | | | |
| 610 | C OUT LEVEL M (4.5) For Asia | Main | | 63 | 13 | 13 | | | | |
| 611 | C OUT LEVEL B/G (5.5) For Asia | Main | | 63 | 13 | 13 | | | | |
| 612 | C OUT LEVEL D/K (6.5) For Asia | Main | | 63 | 13 | 13 | | | | |
| 613 | C OUT LEVEL I (6.0) For Asia | Main | | 63 | 13 | 13 | | | | |
| 614 | C OUT LEVEL B/G (5.5) For Europe | Main | | 63 | 8 | 8 | | | | |
| 615 | C OUT LEVEL D/K (6.5) For Europe | Main | | 63 | 8 | 8 | | | | |
| 616 | C OUT LEVEL I (6.0) For Europe | Main | | 63 | 3 | 3 | | | | |
| 617 | C OUT LEVEL L (6.5) For Europe | Main | | 63 | 8 | 8 | | | | |
| 618 | C OUT LEVEL L' (6.1) For Europe | Main | | 63 | 8 | 8 | | | | |
| 619 | C OUT LEVEL M (4.5) For US | Main | | 63 | 13 | 13 | | | | |
| 620 | Y OUT LEVEL M (4.5) For Asia | Sub | | 63 | 14 | 14 | | | | |
| 621 | Y OUT LEVEL B/G (5.5) For Asia | Sub | | 63 | 13 | 13 | | | | |
| 622 | Y OUT LEVEL D/K (6.5) For Asia | Sub | | 63 | 15 | 15 | | | | |

○: should be adjusted
▲: should be followed previous data

| ADJ. No. | Function | | Maximum Value | Default | | Changed Component | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Adjustment Items | Mode | | 32" | 42" | FORMATTER PWB | VIDEO PWB | TUNER PWB | PDP Panel |
| 623 | Y OUT LEVEL I (6.0) For Asia | Sub | 63 | 13 | 13 | | | | |
| 624 | Y OUT LEVEL B/G (5.5) For Europe | Sub | 63 | 13 | 13 | | | | |
| 625 | Y OUT LEVEL D/K (6.5) For Europe | Sub | 63 | 16 | 16 | | | | |
| 626 | Y OUT LEVEL I (6.0) For Europe | Sub | 63 | 20 | 20 | | | | |
| 627 | Y OUT LEVEL L (6.5) For Europe | Sub | 63 | 13 | 13 | | | | |
| 628 | Y OUT LEVEL L' (6.1) For Europe | Sub | 63 | 13 | 13 | | | | |
| 629 | Y OUT LEVEL M (4.5) For US | Sub | 63 | 13 | 13 | | | | |
| 630 | C OUT LEVEL M (4.5) For Asia | Sub | 63 | 13 | 13 | | | | |
| 631 | C OUT LEVEL B/G (5.5) For Asia | Sub | 63 | 13 | 13 | | | | |
| 632 | C OUT LEVEL D/K (6.5) For Asia | Sub | 63 | 13 | 13 | | | | |
| 633 | C OUT LEVEL I (6.0) For Asia | Sub | 63 | 13 | 13 | | | | |
| 634 | C OUT LEVEL B/G (5.5) For Europe | Sub | 63 | 13 | 13 | | | | |
| 635 | C OUT LEVEL D/K (6.5) For Europe | Sub | 63 | 13 | 13 | | | | |
| 636 | C OUT LEVEL I (6.0) For Europe | Sub | 63 | 13 | 13 | | | | |
| 637 | C OUT LEVEL L (6.5) For Europe | Sub | 63 | 13 | 13 | | | | |
| 638 | C OUT LEVEL L' (6.1) For Europe | Sub | 63 | 13 | 13 | | | | |
| 639 | C OUT LEVEL M (4.5) For US | Sub | 63 | 13 | 13 | | | | |
| 640 | Contrast Center (CM) | DVI-PC | 254 | 128 | 128 | | | | |
| 641 | Contrast Center (CM) | DVI-STB (With Setup) | 254 | 149 | 149 | | | | |
| 642 | Contrast Center (CM) | DVI-STB (Without Setup) | 254 | 128 | 128 | | | | |
| 643 | Contrast Center (CM) | DSUB-RGB | 254 | 128 | 128 | | | | |
| 644 | Contrast Center (CM) | Expand DSUB-RGB (Reserved) | 254 | 128 | 128 | | | | |
| 645 | Contrast Center (CM) | DSUB-COMP | 254 | 137 | 137 | | | | |
| 646 | Brightness Center (CM) | DVI-PC | 254 | 128 | 128 | | | | |
| 647 | Brightness Center (CM) | DVI-STB | 254 | 128 | 128 | | | | |
| 648 | Brightness Center (CM) | DSUB-RGB | 254 | 128 | 128 | | | | |
| 649 | Brightness Center (CM) | Expand DSUB-RGB (Reserved) | 254 | 128 | 128 | | | | |
| 650 | Brightness Center Offset | DSUB-COMP | 254 | 127 | 127 | | | | |
| 651 | Color Center (CM) | DVI-PC | 127 | 77 | 77 | | | | |
| 652 | Color Center (CM) | DVI-STB (480i/576i/480p/576p) | 127 | 77 | 77 | | | | |
| 653 | Color Center (CM) | DVI-STB (720p-60/1080i-60/1080i-50 | 127 | 77 | 77 | | | | |
| 654 | Color Center (CM) | DVI-STB (VGA) | 127 | 77 | 77 | | | | |
| 655 | Color Center (CM) | DSUB-RGB | 127 | 77 | 77 | | | | |
| 656 | Tint Center (CM) | DVI-PC | 254 | 128 | 128 | | | | |
| 657 | Tint Center (CM) | DVI-STB (480i/576i/480p/576p) | 254 | 128 | 128 | | | | |
| 658 | Tint Center (CM) | DVI-STB (720p-60/1080i-60/1080i-50 | 254 | 128 | 128 | | | | |
| 659 | Tint Center (CM) | DVI-STB (VGA) | 254 | 128 | 128 | | | | |
| 660 | Tint Center (CM) | DSUB-RGB | 254 | 128 | 128 | | | | |
| 661 | Center of Sharpness (HV Enhance Gain for Y) | DVI-STB (480i/576i) | 31 | 3 | 3 | | | | |
| 662 | Center of Sharpness (HV Enhance Gain for Y) | DVI-STB (480p/576p) | 31 | 2 | 2 | | | | |
| 663 | Center of Sharpness (HV Enhance Gain for Y) | DVI-STB (720p-60) | 31 | 2 | 2 | | | | |
| 664 | Center of Sharpness (HV Enhance Gain for Y) | DVI-STB (1080i-60/1080i-50) | 31 | 2 | 2 | | | | |
| 665 | Center of Sharpness (HV Enhance Gain for Y) | DVI-STB (VGA) | 31 | 2 | 2 | | | | |
| 666 | DVI-STB Setup 0:None VGA/Others Yes, 1:All none 2:All have | DVI-STB mode | 2 | 0 | 0 | | | | |
| 667 | HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled) | DVI-PC | 1 | 0 | 0 | | | | |
| 668 | HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled) | DVI-STB | 1 | 0 | 0 | | | | |
| 669 | HSYNC De-Jitter 0:Low (Disabled), 1:(High (Enabled) | AVC | 1 | 0 | 0 | | | | |
| 670 | Horizontal Clip Offset Level for Y/G AS[YHECLPL3_P0] | NT2～4/PAL2～4 | 15 | - | 10 | | | | |
| 671 | EU[YHECLPL3_E_P0] | NT2～4/PAL2～4 | 15 | - | 10 | | | | |
| 672 | Horizontal Clip Offset Level for Y/G AS[YHCLPL3_P1] | NT2～4/PAL2～4 | 15 | 2 | - | | | | |
| 673 | EU[YHECLPL3_E_P1] | NT2～4/PAL2～4 | 15 | 5 | - | | | | |
| 674 | Y_DL (4.5MHz) For US | Main | 10 | 7 | 7 | | | | |
| 675 | Y_DL (4.6MHz) For US | Sub | 10 | 7 | 7 | | | | |
| 676 | Y_DL (5.5MHz PAL/NTSC4.43) For Europe | Main | 10 | 4 | 4 | | | | |
| 677 | Y_DL (5.5MHz SECAM) For Europe | Main | 10 | 1 | 1 | | | | |
| 678 | Y_DL (6.0PAL/NTSC4.43) For Europe | Main | 10 | 8 | 8 | | | | |
| 679 | Y_DL (6.0SECAM) For Europe | Main | 10 | 5 | 5 | | | | |
| 680 | Y_DL (5.5MHz PAL/NTSC4.43) For Europe | Sub | 10 | 2 | 2 | | | | |
| 681 | Y_DL (5.5MHz SECAM) For Europe | Sub | 10 | 0 | 0 | | | | |
| 682 | Y_DL (6.0PAL/NTSC4.43) For Europe | Sub | 10 | 4 | 4 | | | | |
| 683 | Y_DL (6.0SECAM) For Europe | Sub | 10 | 0 | 0 | | | | |
| 684 | Y_DL (6.5MHz PAL/NTSC4.43) For Europe | Main | 10 | 5 | 5 | | | | |
| 685 | Y_DL (6.5MHz SECAM) For Europe | Main | 10 | 5 | 5 | | | | |
| 686 | Y_DL (6.5MHz PAL/NTSC4.43) For Europe | Sub | 10 | 2 | 2 | | | | |
| 687 | Y_DL (6.5MHz SECAM) For Europe | Sub | 10 | 0 | 0 | | | | |
| 688 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | TV | 31 | 19 | 19 | | | | |
| 689 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | VIDEO | 31 | 24 | 24 | | | | |
| 690 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | HD5/HD6 | 31 | 11 | 11 | | | | |
| 691 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | HD1/HD4/HD7/HD8 | 31 | 7 | 7 | | | | |
| 692 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | HD2/HD3/HD9/HD10 | 31 | 15 | 15 | | | | |
| 693 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | NT2/NT3/PAL2/PAL3/NT4/PAL4 | 31 | 9 | 9 | | | | |
| 694 | Center of Sharpness (HV Enhancer Gain for Y) For Asia/US | TEXT(2 picture) | 31 | 15 | 15 | | | | |
| 695 | Contrast mode SW (TV-Dynamic) 0:Dynamic 1:Dynamic+Auto | TV | 1 | 0 | 0 | | | | |
| 696 | V detection(FORMATTER PWB) 0:out of range 128:NO V (or out of spec.) 255:interrupt | 50/60Hz | 255 | | | | | | |
| 697 | H detection(FORMATTER PWB) 0:out of range 128:NO H (or out of spec.) 255:interrupt | 15/28/31/33/45kHz | 255 | | | | | | |
| 698 | V detection(VIDEO PWB) 0:out of range 128:NO V 255:interrupt | 50/60Hz | 255 | | | | | | |
| 699 | H detection(VIDEO PWB) 0:out of range 128:NO H 255:interrupt | 15/28/31/33/45kHz | 255 | | | | | | |
| 700 | RGB Amp.Gain Adjustment (FLAON) | Main | - | - | - | ○ | | | ○ |
| 701 | RGB Amp.Gain Adjustment | Sub | - | - | - | ○ | | | ○ |
| 702 | Automatic White Peak Adj. (Single Picture) | Single Picture mode | - | - | - | ○ | | | ○ |
| 703 | Automatic White Peak Adj. (Multi Picture) | Multi Picture mode | - | - | - | ○ | | | ○ |
| 704 | EEPROM Initialize (0:No, 1:Yes) | | 1 | 0 | 0 | | | | |
| 705 | Adjustment Menu of FC4 | | - | - | - | | | | |

## ● The Expression of input signal mode (format)

PAL1: RF, S and Composite of PAL/SECAM
PAL2: Component of PAL (YCBCR)
PAL3: Component of PAL (YPBPR)
PAL4: Component of PAL (YCBCR-SCART)
PAL: PAL1-4
NT1: S and Composite of NTSC
NT2: Component of NTSC (YCBCR)
NT3: Component of NTSC (YPBPR)
NT4: Component of NTSC (YCBCR-SCART)
NTSC: NTSC1-4
HD1-6: Component (shown in the table→)
HD7: Component of 1080i/50 (YPBPR)
HD8: Component of 1080i/50 (YCBCR)
HD9: Component of 576p (YPBPR)
HD10: Component of 576p (YCBCR)
HD: HD1-10 of Component
TV: NTSC / HD
PC: PC signal

| Video Input | System | Judgment of H.Frequency | Video Input Setup | Mode |
|---|---|---|---|---|
| AV1<br>AV2 | PAL | 15.75kHz<br>(576i) | Auto | PAL2 |
| | | | SDTV/DVD | PAL2 |
| | | | HDTV | PAL3 |
| | NTSC | 15.75kHz<br>(480i) | Auto | NT2 |
| | | | SDTV/DVD | NT2 |
| | | | HDTV | NT3 |
| | PAL | 31.25kHz<br>(576p) | Auto | HD10 |
| | | | SDTV/DVD | HD10 |
| | | | HDTV | HD9 |
| | NTSC | 31.50kHz<br>(480p) | Auto | HD3 |
| | | | SDTV/DVD | HD3 |
| | | | HDTV | HD2 |
| | NTSC | 45.00kHz<br>(720p) | Auto | HD5 |
| | | | SDTV/DVD | HD6 |
| | | | HDTV | HD5 |
| | PAL | 28.125kHz<br>(1080i) | Auto | HD7 |
| | | | SDTV/DVD | HD8 |
| | | | HDTV | HD7 |
| | NTSC | 33.75kHz<br>(1080i) | Auto | HD1 |
| | | | SDTV/DVD | HD4 |
| | | | HDTV | HD1 |

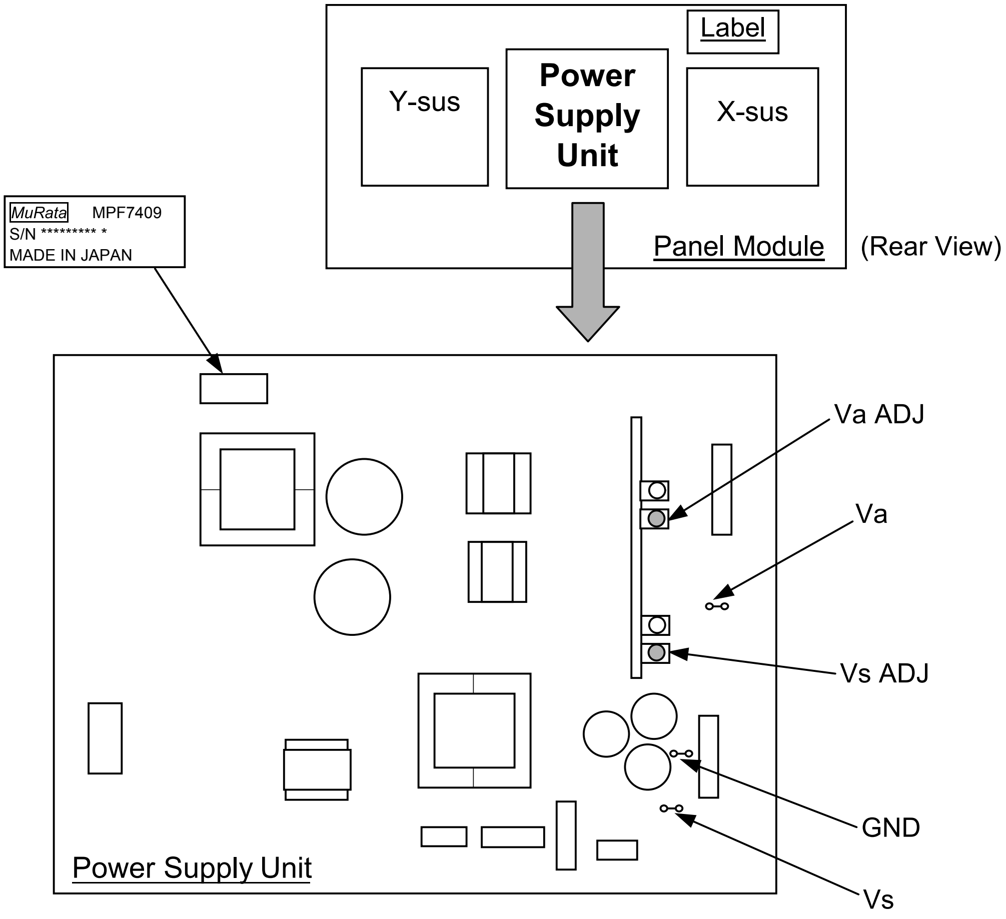
## ● Factory Reset

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

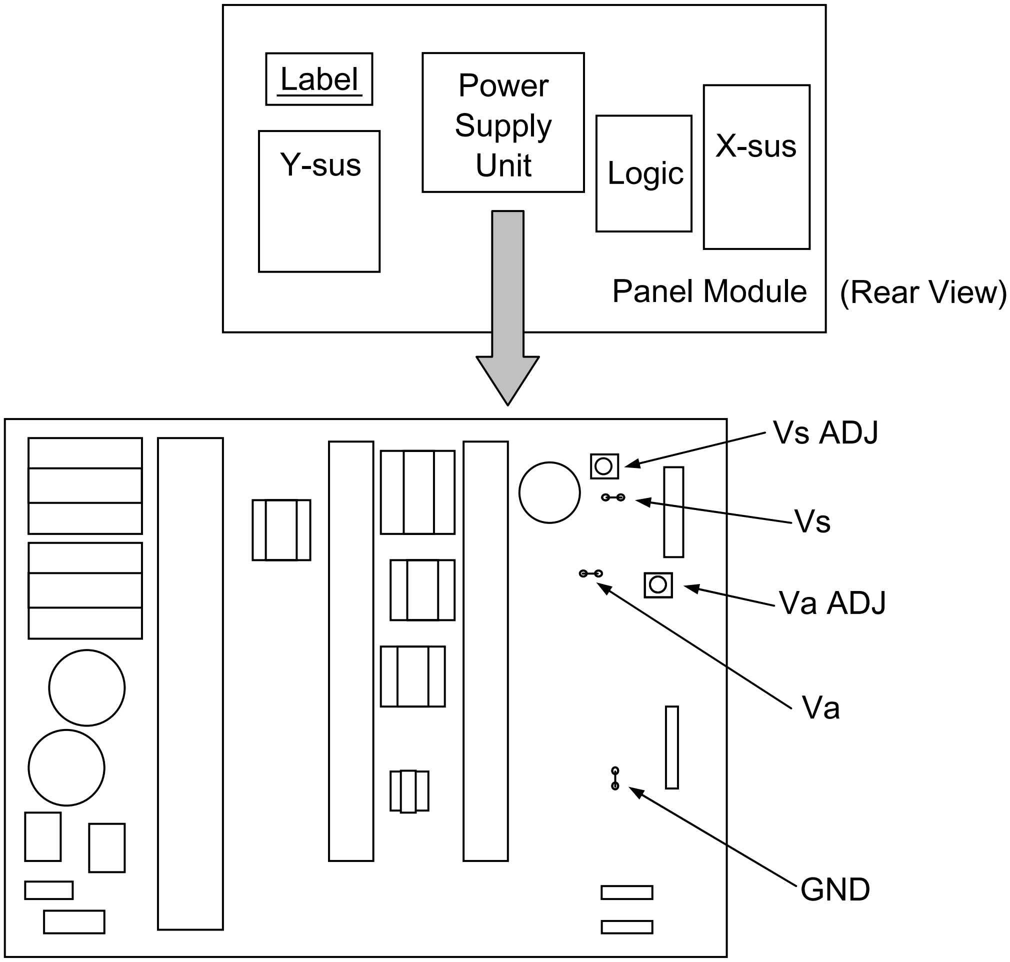
Press the SUB-POWER(⏻|) button, INPUT SELECT(⇥) button and ▲ button at the same time, and hold for more than 5 seconds.

The unit is set to factory settings.

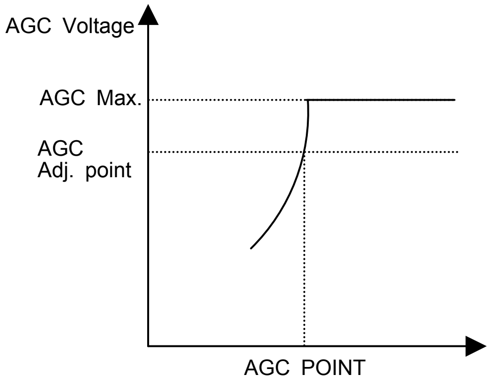
| | | | |
|---|---|---|---|
| Item | Vs and Va VOLTAGE ADJUSTMENT | | |
| Applicable Model | 32PD5000, 37PD5000, 37PD5000 | | |
| Preparation | | Procedure | |
| (1) | Keep heat-run for 1 minutes or more. | (1) | If the difference between the printed voltage of Vs and the indicated value of Vs Voltmeter is over 0.1V, adjust the Vs ADJ VR located upward on the Power Supply Unit to make it within 0.1V. |
| (2) | Connect the DC Voltmeter to the Vs test point and the GND point (or the Va test point and the GND point) on the Power Supply Unit. | (2) | If the difference between the printed voltage of Va and the indicated value of Va Voltmeter is over 0.2V, adjust the Va ADJ VR located upward on the Power Supply Unit to make it within 0.2V. |
| (3) | Receive the all black signal with no setup. | (3) | Check and do the procedure (1) again. |
| (4) | Check the indication of Vs and Va voltages printed on the label located upper right side on the Panel Module. | | <Example of the Voltage Label><br><LOT> ***************<br>Vs= 80.0V Va=60.0V<br>Vw=140.0V Vx=60.0V |

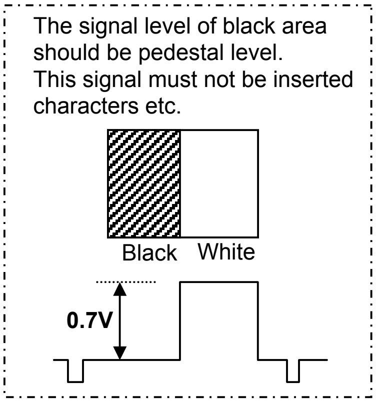

Label
Y-sus
Power Supply Unit
X-sus
Panel Module
(Rear View)
MuRata MPF7409
S/N ********* *
MADE IN JAPAN
Va ADJ
Va
Vs ADJ
GND
Vs
Power Supply Unit

| | | | |
|---|---|---|---|
| Item | Vs and Va VOLTAGE ADJUSTMENT | | |
| Applicable Model | 55PMA500E | | |
| | Preparation | | Procedure |
| (1) | Keep heat-run for 1 minutes or more. | (1) | If the difference between the printed voltage of Vs and the indicated value of Vs Voltmeter is over 0.1V, adjust the Vs ADJ VR located on the Power Supply Unit to make it within 0.1V. |
| (2) | Connect the DC Voltmeter to the Vs test point and the GND point (or the Va test point and the GND point) on the Power Supply Unit. | (2) | If the difference between the printed voltage of Va and the indicated value of Va Voltmeter is over 0.2V, adjust the Va ADJ VR located on the Power Supply Unit to make it within 0.2V. |
| (3) | Receive the all black signal with no setup. | (3) | Check and do the procedure (1) again. |
| (4) | Check the indication of Vs and Va voltages printed on the label located upper left side on the Panel Module. | | <Example of the Voltage Label><br><LOT> **************<br>Vs= 82.0V Va=63.0V<br>Vw=180.0V Vx=40.0V |

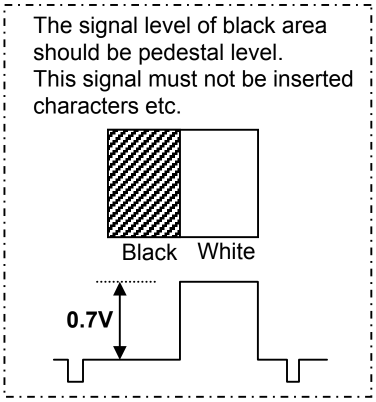

Label
Power Supply Unit
Y-sus
Logic
X-sus
Panel Module
(Rear View)
Vs ADJ
Vs
Va ADJ
Va
GND
Power Supply Unit

| Item | AGC ADJUSTMENT |
|---|---|
| Applicable Model | 42PD5200, 32PD5200, 37PD5200 |

| | Preparation | | Procedure |
|---|---|---|---|
| (1) | Keep heat-run for 5 minutes or more. | (1) | Enter the service adjustment mode, and indicate No.289 (AGC Adjustment) and No.291 (AGC Input). |
| (2) | Receive the adjustment signal at ANT terminal.<br>Signal condition<br>CCIR ch-5 (175.25MHz)<br>PAL B/G Philips Pattern<br>Input Field Strength: -50dBm | (2) | Increase the data of No.289 until the data of No.291 converges. (This is the point of AGC-MAX.) |
| | | (3) | Decrease the data of No.289 until the data of No.291 diminishes, and then press the OK button.<br> |

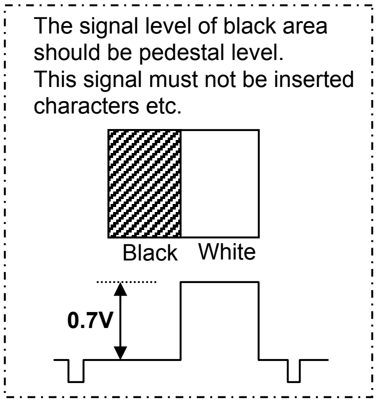
|  |  |
|---|---|
| Item | AUTOMATIC SIGNAL LEVEL ADJUSTMENT –RGB (1) |
| Applicable Model | 42PD5100, 42PD5200, 32PD5200, 37PD5200, 55PMA550E |
| **Preparation** | **Procedure** |
| (1) Input the adjustment signal of VGA (60Hz) format into RGB2 [D-sub] input terminal.<br>the adjustment signal<br><br>The signal level of black area should be pedestal level. This signal must not be inserted characters etc.<br> | (1) Select RGB2 and enter the service adjustment mode.<br>(2) Select No.700 “RGB Amp. Gain ADJ.” and press OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of “AUTO MODE” disappeared. |

[Note] Never adjust without use of the specified signal.
If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

|  |  |
|---|---|
| Item | AUTOMATIC SIGNAL LEVEL ADJUSTMENT –RGB (2) |
| Applicable Model | 42PD5100, 42PD5200, 32PD5200, 37PD5200, 55PMA550E |
| **Preparation** | **Procedure** |
| (1) Input the adjustment signal of 576p or 480p format into AV1 input terminal.<br>the adjustment signal<br><br>The signal level of black area should be pedestal level. This signal must not be inserted characters etc.<br> | (1) Select AV1 and enter the service adjustment mode.<br>(2) Select No.700 “RGB Amp. Gain ADJ.” and press OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of “AUTO MODE” disappeared.<br>(3) Select No.701 “RGB Amp. Gain ADJ.” and press OK button for more than 2 seconds to start the adjustment. It will complete the adjustment after the OSD of “AUTO MODE” disappeared. |

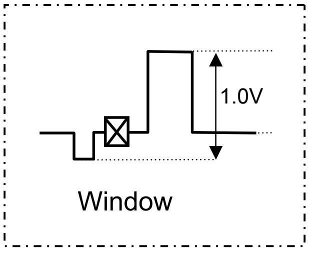
[Note] Never adjust without use of the specified signal.
If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

| Item | AUTOMATIC SIGNAL LEVEL ADJUSTMENT –VIDEO |
|---|---|
| Applicable Model | 42PD5100, 42PD5200, 32PD5200, 37PD5200, 55PMA550E |

| | Preparation | | Procedure |
|---|---|---|---|
| (1) | Input the adjustment signal of 576p or 480p format into AV1 input terminal.<br>the adjustment signal<br><br>The signal level of black area should be pedestal level.<br>This signal must not be inserted characters etc.<br> | (1) | Select AV1 and enter the service adjustment mode. |
| | | (2) | Select No.703 “Automatic White peak Adj. (Multi)” and press OK button for more than 2 seconds to start the adjustment.<br>It will complete the adjustment after the OSD of “AUTO MODE” disappeared. |

[Note] Never adjust without use of the specified signal.
If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

| Item | AUTOMATIC SIGNAL LEVEL ADJUSTMENT –TV |
|---|---|
| Applicable Model | 42PD5200, 32PD5200, 37PD5200, 55PMA550E |

| | Preparation | | Procedure |
|---|---|---|---|
| (1) | Input the adjustment signal modulated to RF frequency into ANT terminal.<br>the adjustment signal<br><br> | (1) | Select TV channel of the adjustment signal and enter the service adjustment mode. |
| | | (2) | Select No.702 “Automatic White peak Adj. (Single)” and press OK button for more than 2 seconds to start the adjustment.<br>It will complete the adjustment after the OSD of “AUTO MODE” disappeared. |

[Note] Never adjust without use of the specified signal.
If that were done by mistake, the picture would become abnormal in black level, contrast and color.
In this case, it will be recovered by re-adjustment in the specified way.

| | |
|---|---|
| Item | COLOR TEMPERATURE ADJUSTMENT -VIDEO |
| Applicable Model | 42PD5100, 42PD5200, 32PD5200, |

| Preparation | Procedure |
|---|---|
| (1) Set CRT COLOR ANALYZER at the center of the screen panel.<br>(2) Input the full-white raster signal to AV1 component terminal and select AV1.<br>Signal condition<br>480i component<br>Video level: 0.714Vp-p<br>Sync level: 0.286Vp-p<br>Setup level: 0V<br>(3) Set the display size to “Full”.<br>(This item must be done before the same adjustment for PC mode.) | [Adjustment of Cool mode]<br>(1) Enter the service adjustment mode, and confirm that No.0(R), 1(G) and 2(B) are all 255. If the some data are not, set to 255.<br>(2) Adjust the color temperature by way that reduces the one or two data in No.0, 1 or 2.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Cool) for Video<br>12000K x=0.268±0.005<br>y=0.283±0.005<br>[Adjustment of Normal mode]<br>(3) Enter the service adjustment mode, and confirm that No.3(R), 4(G) and 5(B) are all 255. If the some data are not, set to 255.<br>(4) Adjust the color temperature by way that reduces the one or two data in No.3, 4 or 5.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Normal) for Video<br>9300K x=0.285±0.005<br>y=0.293±0.005<br>[Adjustment of Warm mode]<br>(5) Enter the service adjustment mode, and confirm that No.6(R), 7(G) and 8(B) are all 255. If the some data are not, set to 255.<br>(6) Adjust the color temperature by way that reduces the one or two data in No.6, 7 or 8.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Warm) for Video<br>6500K x=0.314±0.005<br>y=0.327±0.005<br>[Adjustment of Black / White mode]<br>(7) Enter the service adjustment mode, and confirm that No.9(R), 10(G) and 11(B) are all 255. If the some data are not, set to 255.<br>(8) Adjust the color temperature by way that reduces the one or two data in No.9, 10 or 11.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (B/W) for Video<br>5400K x=0.335±0.005<br>y=0.343±0.005 |

| | |
|---|---|
| Item | COLOR TEMPERATURE ADJUSTMENT -VIDEO |
| Applicable Model | 55PMA500E |

**Preparation**

(This item must be done before the color temperature adjustment for PC mode.)

(1) Set CRT COLOR ANALYZER at the center of the screen panel.

(2) Input the full-white raster signal to AV1 component terminal and select AV1.

Signal condition
480i component
Video level: 0.280Vp-p
Sync level: 0.286Vp-p
Setup level: 0V

(3) Set the display size to "Full".

(4) Change the input signal level to AV1 as below;
Video level: 0.714Vp-p

**Procedure**

[Adjustment of Cool mode]

(1) Enter the service adjustment mode, and confirm that No.0(R), 1(G) and 2(B) are all 255. If the some data are not, set to 255.

(2) Adjust the color temperature by way that reduces the one or two data in No.0, 1 or 2.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (Cool) for Video
15000K x=0.264±0.005
y=0.263±0.005

[Adjustment of Normal mode]

(3) Enter the service adjustment mode, and confirm that No.3(R), 4(G) and 5(B) are all 255. If the some data are not, set to 255.

(4) Adjust the color temperature by way that reduces the one or two data in No.3, 4 or 5.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (Normal) for Video
9300K x=0.285±0.005
y=0.293±0.005

[Adjustment of Warm mode]

(5) Enter the service adjustment mode, and confirm that No.6(R), 7(G) and 8(B) are all 255. If the some data are not, set to 255.

(6) Adjust the color temperature by way that reduces the one or two data in No.6, 7 or 8.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (Warm) for Video
6500K x=0.314±0.005
y=0.327±0.005

[Adjustment of Black / White mode]

(7) Enter the service adjustment mode, and confirm that No.9(R), 10(G) and 11(B) are all 255. If the some data are not, set to 255.

(8) Adjust the color temperature by way that reduces the one or two data in No.9, 10 or 11.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (B/W) for Video
5400K x=0.335±0.005
y=0.343±0.005

| | |
|---|---|
| Item | COLOR TEMPERATURE ADJUSTMENT -VIDEO |
| Applicable Model | 37PD5200 |

**Preparation**

(This item must be done before the color temperature adjustment for PC mode.)

(1) Set CRT COLOR ANALYZER at the center of the screen panel.

(2) Input the full-white raster signal to AV1 component terminal and select AV1.

Signal condition
480i component
Video level: 0.700Vp-p
Sync level: 0.300Vp-p
Setup level: 0V

(3) Set the display size to “Full”.

**Procedure**

[Adjustment of Cool mode]

(1) Enter the service adjustment mode, and confirm that No.0(R), 1(G) and 2(B) are all 255. If the some data are not, set to 255.

(2) Adjust the color temperature by way that reduces the one or two data in No.0, 1 or 2.
(Note: At least one of them should be 255 after adjustment.)

> <Specification>
> Color Temperature (Cool) for Video
> 12000K x=0.268±0.005
> y=0.283±0.005

[Adjustment of Normal mode]

(3) Enter the service adjustment mode, and confirm that No.3(R), 4(G) and 5(B) are all 255. If the some data are not, set to 255.

(4) Adjust the color temperature by way that reduces the one or two data in No.3, 4 or 5.
(Note: At least one of them should be 255 after adjustment.)

> <Specification>
> Color Temperature (Normal) for Video
> 9300K x=0.285±0.005
> y=0.293±0.005

[Adjustment of Warm mode]

(5) Enter the service adjustment mode, and confirm that No.6(R), 7(G) and 8(B) are all 255. If the some data are not, set to 255.

(6) Adjust the color temperature by way that reduces the one or two data in No.6, 7 or 8.
(Note: At least one of them should be 255 after adjustment.)

> <Specification>
> Color Temperature (Warm) for Video
> 6500K x=0.314±0.005
> y=0.327±0.005

[Adjustment of Black / White mode]

(7) Enter the service adjustment mode, and confirm that No.9(R), 10(G) and 11(B) are all 255. If the some data are not, set to 255.

(8) Adjust the color temperature by way that reduces the one or two data in No.9, 10 or 11.
(Note: At least one of them should be 255 after adjustment.)

> <Specification>
> Color Temperature (B/W) for Video
> 5400K x=0.335±0.005
> y=0.343±0.005

| Item | COLOR TEMPERATURE ADJUSTMENT -PC |
|---|---|
| Applicable Model | 42PD5100, 42PD5200, 32PD5200, 37PD5200, 55PMA550E |

Preparation

(1) Set CRT COLOR ANALYZER at the center of the screen panel.

(2) Input the full-white raster signal to RGB2 D-sub terminal and select RGB2-RGB.

Signal condition
VGA (75)
Video level: 0.7Vp-p
Setup level: 0V

(3) Set the display area to “Full”.

(This item must be done after the same adjustment for VIDEO mode.)

Procedure

[Adjustment of Cool mode]

(1) Enter the service adjustment mode, and confirm that No.12(R), 13(G) and 14(B) are all 255. If the some data are not, set to 255.

(2) Adjust the color temperature by way that reduces the one or two data in No.12, 13 or 14.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (Cool) for PC
12000K x=0.268±0.005
y=0.283±0.005

[Adjustment of Normal, Warm, Black/White mode]

(3) Set the adjusted value of COLOR TEMP. ADJ. -VIDEO (Normal, Warm, Black/White mode; Adj No. 3, 4, 5, 6, 7, 8, 9, 10, 11) to Adj No. 15, 16, 17, 18, 19, 20, 21, 22, 23.

| [at VIDEO] | | [at PC] |
|---|---|---|
| No. 3 data | → | No.15 data |
| No. 4 data | | No.16 data |
| - | | - |
| - | | - |
| No.11 data | | No.23 data |

<Specification>
Color Temperature (Normal) for PC
9300K x=0.285±0.005
y=0.293±0.005

<Specification>
Color Temperature (Warm) for PC
6500K x=0.314±0.005
y=0.327±0.005

<Specification>
Color Temperature (B/W) for PC
5400K x=0.335±0.005
y=0.343±0.005

| Item | COLOR TEMPERATURE ADJUSTMENT -VIDEO |
|---|---|
| Applicable Model | 42PD5000, 32PD5000 |

| Preparation Procedure | |
|---|---|
| (1) Connect the AVC jig and set CRT COLOR ANALYZER at the center of the screen panel.<br>(2) Set AVC jig to “Standard” of VIDEO mode, and input the full-white raster signal to component terminal.<br>Signal condition<br>480i component<br>Video level: 0.714Vp-p<br>Sync level: 0.286Vp-p<br>Setup level: 0V<br>(3) Set the display size to “Full”.<br>(This item must be done before the same adjustment for PC mode.) | [Adjustment of Cool mode]<br>(1) Enter the service adjustment mode, and confirm that No.0(R), 1(G) and 2(B) are all 255. If the some data are not, set to 255.<br>(2) Adjust the color temperature by way that reduces the one or two data in No.0, 1 or 2.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Cool) for Video<br>12000K x=0.268±0.005<br>y=0.283±0.005<br>[Adjustment of Normal mode]<br>(3) Enter the service adjustment mode, and confirm that No.3(R), 4(G) and 5(B) are all 255. If the some data are not, set to 255.<br>(4) Adjust the color temperature by way that reduces the one or two data in No.3, 4 or 5.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Normal) for Video<br>9300K x=0.285±0.005<br>y=0.293±0.005<br>[Adjustment of Warm mode]<br>(5) Enter the service adjustment mode, and confirm that No.6(R), 7(G) and 8(B) are all 255. If the some data are not, set to 255.<br>(6) Adjust the color temperature by way that reduces the one or two data in No.6, 7 or 8.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Warm) for Video<br>6500K x=0.314±0.005<br>y=0.327±0.005 |

| Item | COLOR TEMPERATURE ADJUSTMENT -VIDEO |
|---|---|
| Applicable Model | 37PD5200 |

| Preparation | Procedure |
|---|---|
| (This item must be done before the color temperature adjustment for PC mode.)<br>(1) Connect the AVC jig and set CRT COLOR ANALYZER at the center of the screen panel.<br>(2) Set AVC jig to “Standard” of VIDEO mode, and input the full-white raster signal to component terminal.<br>Signal condition<br>480i component<br>Video level: 0.700Vp-p<br>Sync level: 0.300Vp-p<br>Setup level: 0V<br>(3) Set the display size to “Full”. | [Adjustment of Cool mode]<br>(1) Enter the service adjustment mode, and confirm that No.0(R), 1(G) and 2(B) are all 255. If the some data are not, set to 255.<br>(2) Adjust the color temperature by way that reduces the one or two data in No.0, 1 or 2.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Cool) for Video<br>12000K x=0.268±0.005<br>y=0.283±0.005<br>[Adjustment of Normal mode]<br>(3) Enter the service adjustment mode, and confirm that No.3(R), 4(G) and 5(B) are all 255. If the some data are not, set to 255.<br>(4) Adjust the color temperature by way that reduces the one or two data in No.3, 4 or 5.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Normal) for Video<br>9300K x=0.285±0.005<br>y=0.293±0.005<br>[Adjustment of Warm mode]<br>(5) Enter the service adjustment mode, and confirm that No.6(R), 7(G) and 8(B) are all 255. If the some data are not, set to 255.<br>(6) Adjust the color temperature by way that reduces the one or two data in No.6, 7 or 8.<br>(Note: At least one of them should be 255 after adjustment.)<br><Specification><br>Color Temperature (Warm) for Video<br>6500K x=0.314±0.005<br>y=0.327±0.005 |

| Item | COLOR TEMPERATURE ADJUSTMENT -PC |
|---|---|
| Applicable Model | 42PD5000, 32PD5000, 37PD5200 |

Preparation Procedure

(1) Connect the AVC jig and set CRT COLOR ANALYZER at the center of the screen panel.

(2) Set AVC jig to “Standard” of PC mode, and input the full-white raster signal to RGB terminal.

Signal condition
VGA (75)
Video level: 0.7Vp-p
Setup level: 0V

(3) Set the display area to “Full”.

(This item must be done after the same adjustment for VIDEO mode.)

[Adjustment of Cool mode]

(1) Enter the service adjustment mode, and confirm that No.12(R), 13(G) and 14(B) are all 255. If the some data are not, set to 255.

(2) Adjust the color temperature by way that reduces the one or two data in No.12, 13 or 14.
(Note: At least one of them should be 255 after adjustment.)

<Specification>
Color Temperature (Cool) for PC
12000K x=0.268±0.005
y=0.283±0.005

[Adjustment of Normal, Warm, Black/White mode]

(3) Set the adjusted value of COLOR TEMP. ADJ. -VIDEO (Normal, Warm, Black/White mode; Adj No. 3, 4, 5, 6, 7, 8) to Adj No. 3, 4, 5, 6, 7, 8.

| [at VIDEO] | | [at PC] |
|---|---|---|
| No.3 data | → | No.3 data |
| No.4 data | | No.4 data |
| - | | - |
| - | | - |
| No.8 data | | No.8 data |

<Specification>
Color Temperature (Normal) for PC
9300K x=0.285±0.005
y=0.293±0.005

<Specification>
Color Temperature (Warm) for PC
6500K x=0.314±0.005
y=0.327±0.005

# *7. Troubleshooting*

## ● How to get to Burn-in mode

This mode displays the test patterns of some single color raster in turn. These signals are from built-in generator of PDP panel. So it can be presumed that maybe the panel has some trouble when the screen of Burn-in mode is abnormal.

Using the front control buttons with the set turned off (standby) can activate this mode.

Press the SUB-POWER(⏻) button, INPUT SELECT(⎆) button and VOLUME DOWN(◢) button at the same time, and hold for more than 5 seconds.

The set turns on with single color raster and the OSD of [BURN IN: ON].

To escape from this mode, press the SUB-POWER(⏻) button, INPUT SELECT(⎆) button and ▲ button at the same time, and hold for more than 5 seconds. Burn-in mode will be released.

## ● How to recover the remote and front key function

If remote and front key cannot operate after miss set special function by front keys, these functions can recover by below method.

Press the SUB-POWER(⏻) button, INPUT SELECT(⎆) button and ▼ button at the same time, and hold for more than 5 seconds.

The set turns on the service menu mode.

Select No.175 and data set from [0] to [1].

Or

Press the SUB-POWER(⏻) button and ▼ button at the same time, and hold for more than 5 seconds

## ● Forced AVC mode (only for 37PD5200)

This model is set to "Forced AVC" mode. It makes the set cannot be turned on without connecting AVC.

Following procedures should be referred when servicing 42/32PD5200 without AVC box.

**Procedure of escaping from this mode** (before servicing)

Using the front control buttons with the set turned off (standby) can activate it.

Press the SUB-POWER button and VOLUME▲ button at the same time, and hold for more than 5 seconds.

The set will be changed that the power of the monitor can be turned on without AVC.

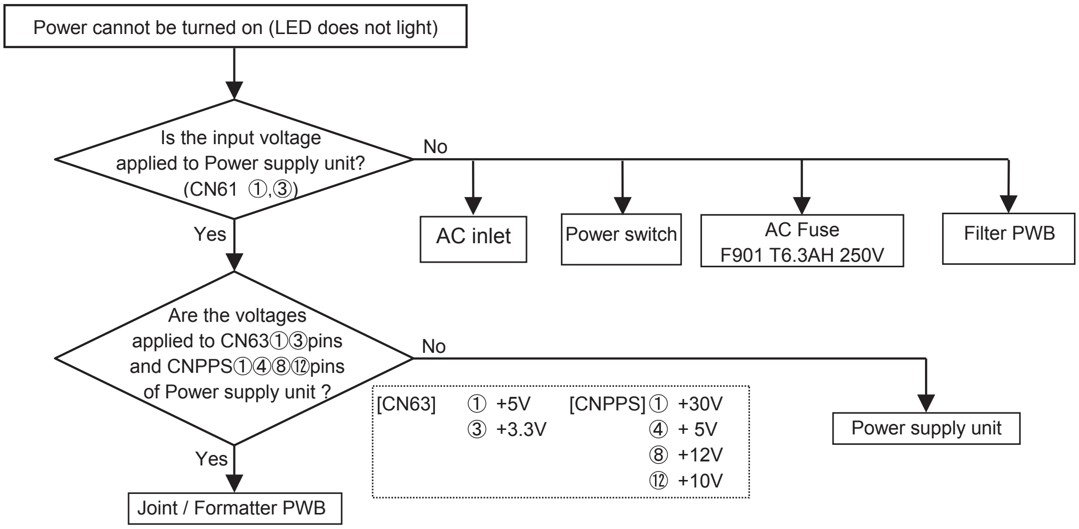
**Procedure of getting into this mode again** (after servicing)

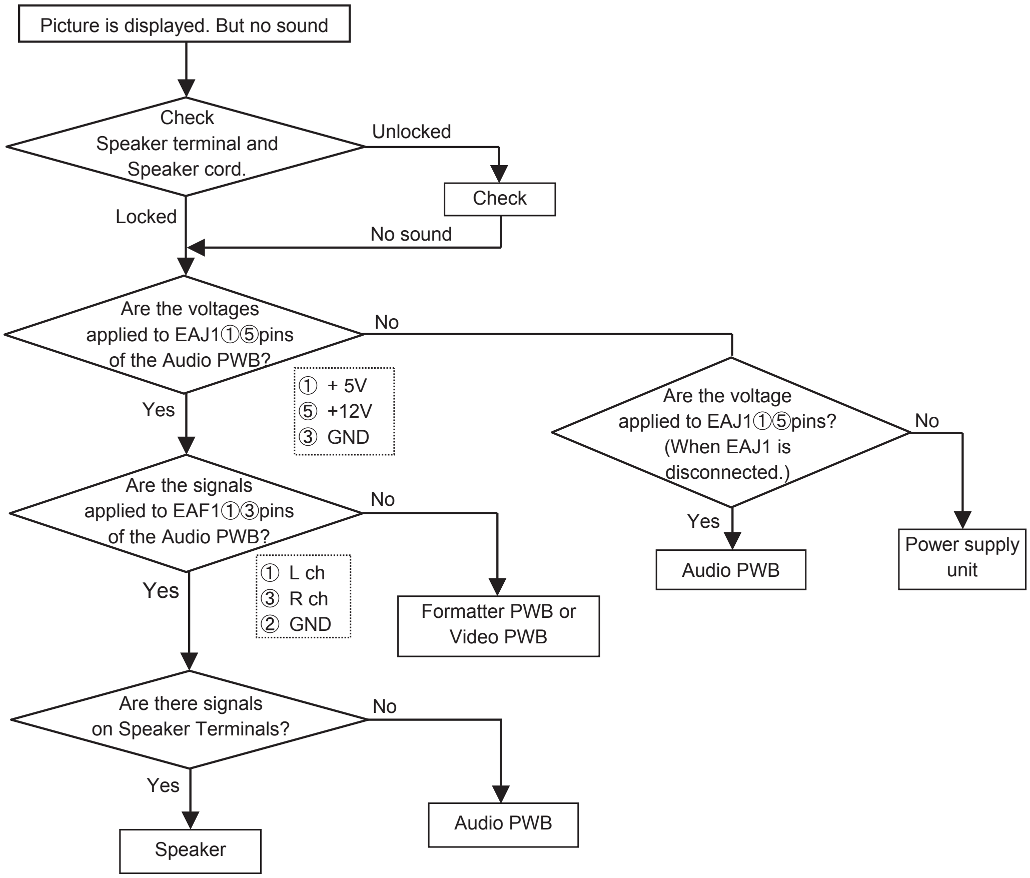
(1) Enter Adjustment Mode.

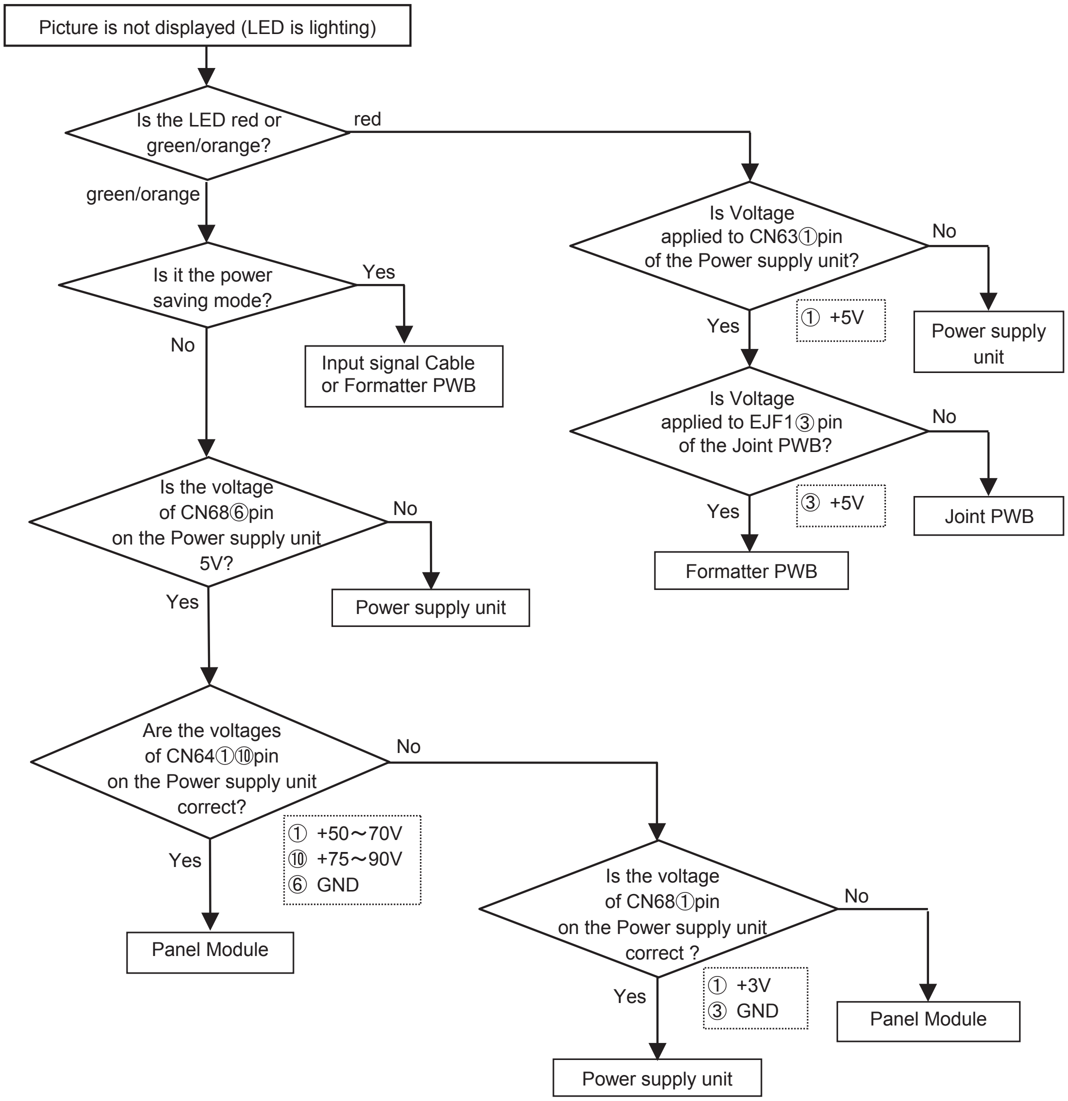
(2) Select adjustment code (No.323) and change the data value from 0 to 1.

The set will be changed again that the power of the monitor cannot be turned on without AVC.

# ● Troubleshooting (POWER)

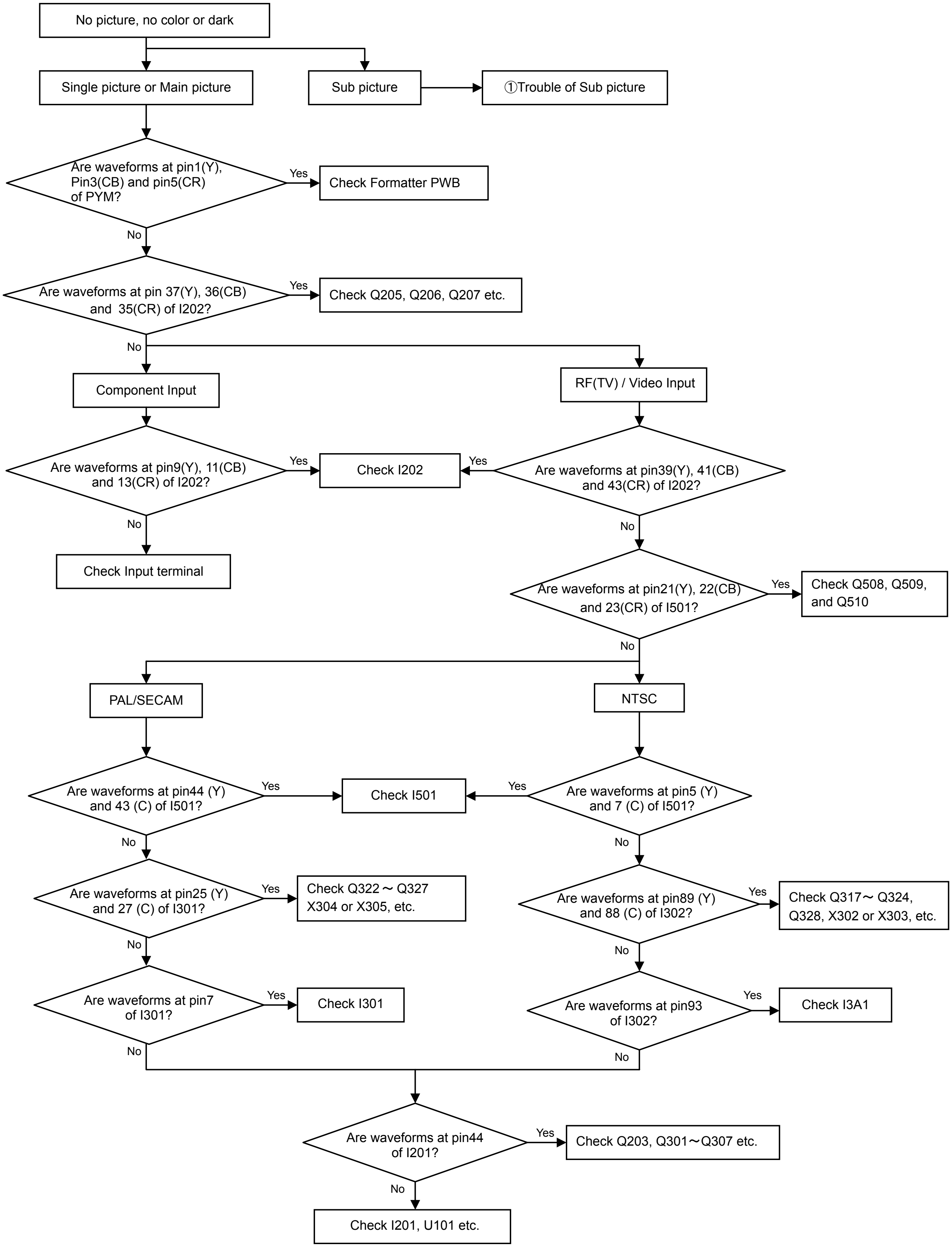

Power cannot be turned on (LED does not light)
Is the input voltage applied to Power supply unit? (CN61 ①,③)
No
AC inlet
Power switch
AC Fuse F901 T6.3AH 250V
Filter PWB
Yes
Are the voltages applied to CN63①③pins and CNPPS①④⑧⑫pins of Power supply unit ?
No
[CN63] ① +5V
③ +3.3V
[CNPPS] ① +30V
④ + 5V
⑧ +12V
⑫ +10V
Power supply unit
Yes
Joint / Formatter PWB

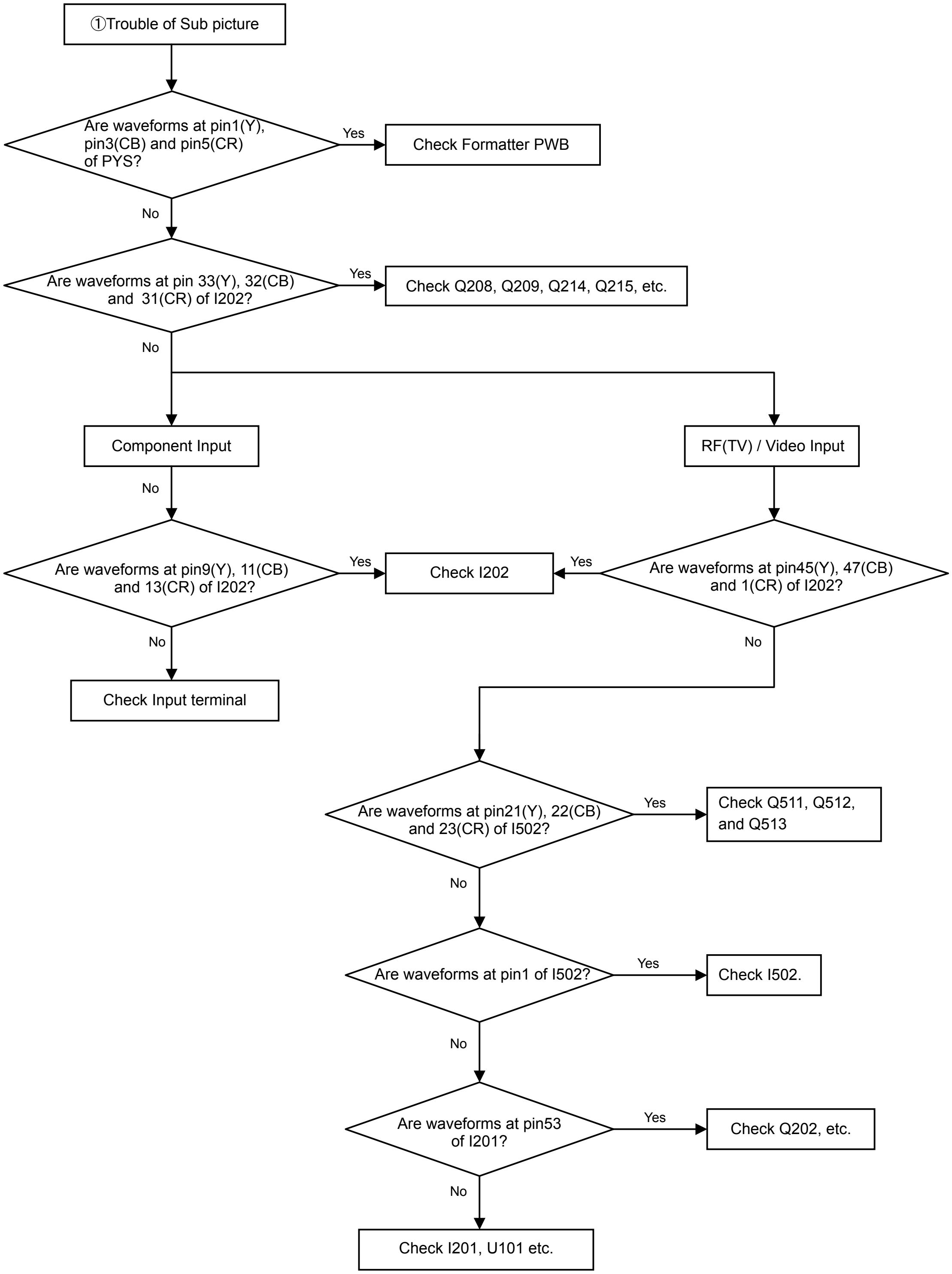

Picture is displayed. But no sound
Check Speaker terminal and Speaker cord.
Unlocked
Check
No sound
Locked
Are the voltages applied to EAJ1①⑤pins of the Audio PWB?
No
① + 5V
⑤ +12V
③ GND
Are the voltage applied to EAJ1①⑤pins? (When EAJ1 is disconnected.)
No
Power supply unit
Yes
Audio PWB
Yes
Are the signals applied to EAF1①③pins of the Audio PWB?
No
① L ch
③ R ch
② GND
Formatter PWB or Video PWB
Yes
Are there signals on Speaker Terminals?
No
Audio PWB
Yes
Speaker


Picture is not displayed (LED is lighting)
Is the LED red or green/orange?
red
green/orange
Is it the power saving mode?
Yes
No
Input signal Cable or Formatter PWB
Is the voltage of CN68⑥pin on the Power supply unit 5V?
No
Power supply unit
Yes
Are the voltages of CN64①⑩pin on the Power supply unit correct?
① +50～70V
⑩ +75～90V
⑥ GND
Yes
Panel Module
No
Is the voltage of CN68①pin on the Power supply unit correct ?
① +3V
③ GND
Yes
Power supply unit
No
Panel Module
Is Voltage applied to CN63①pin of the Power supply unit?
① +5V
No
Power supply unit
Yes
Is Voltage applied to EJF1③pin of the Joint PWB?
③ +5V
No
Joint PWB
Yes
Formatter PWB

## ● Troubleshooting (PICTURE) ....... for 42PD5100MA, 32/37/42PD5200, 55PMA500E

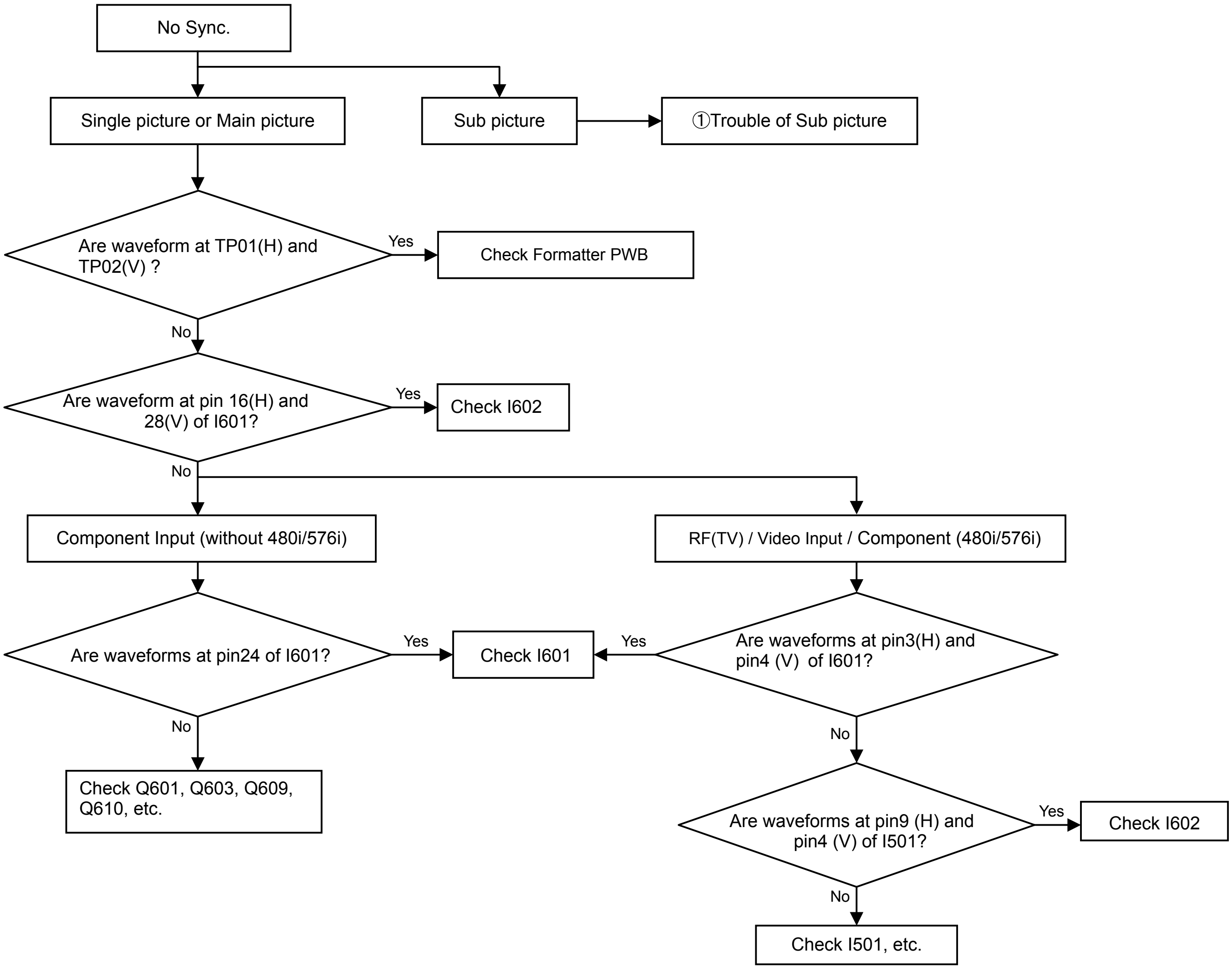
[VIDEO PWB Circuit]

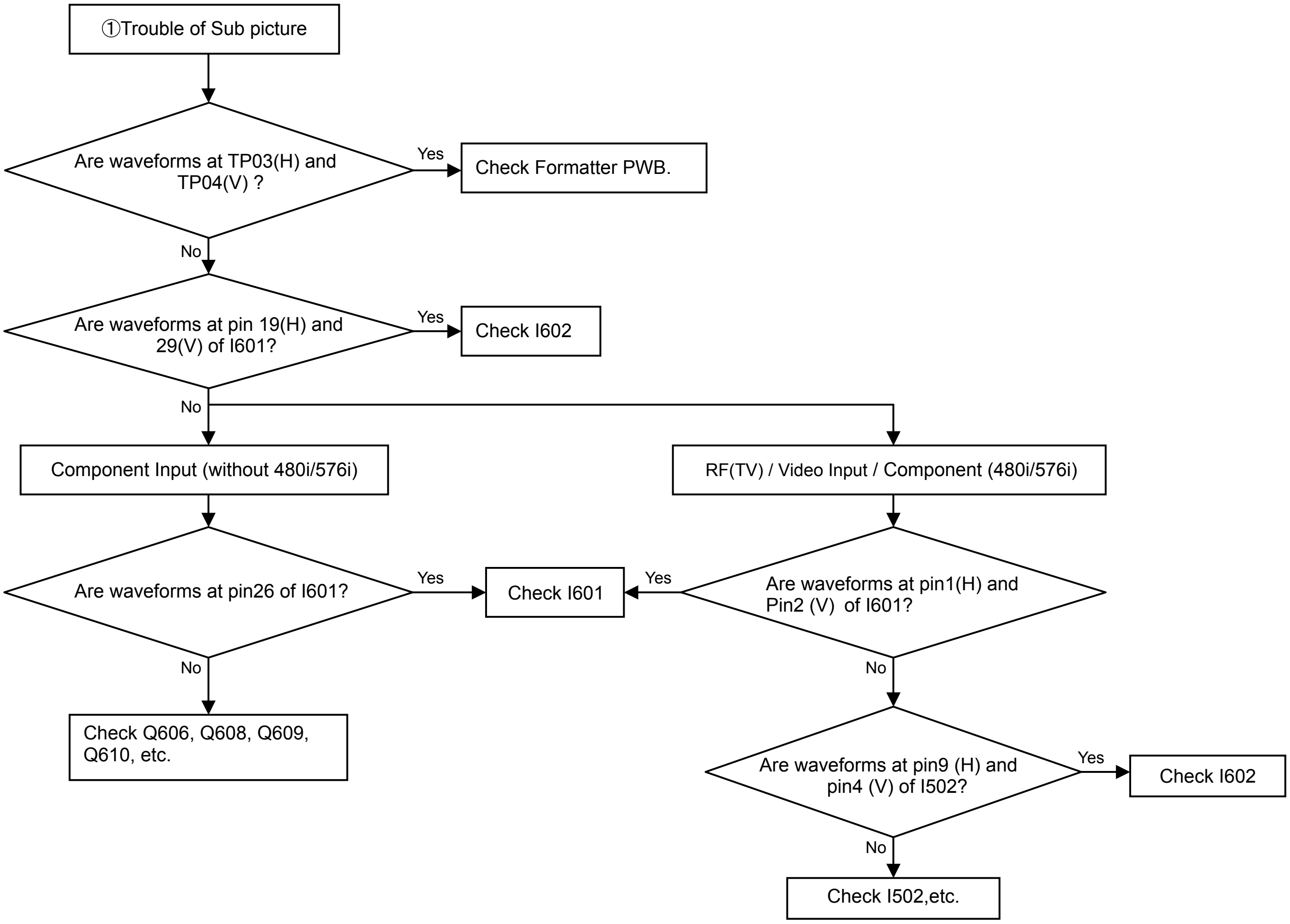

No picture, no color or dark
Single picture or Main picture
Sub picture
①Trouble of Sub picture
Are waveforms at pin1(Y), Pin3(CB) and pin5(CR) of PYM?
Yes
Check Formatter PWB
No
Are waveforms at pin 37(Y), 36(CB) and 35(CR) of I202?
Yes
Check Q205, Q206, Q207 etc.
No
Component Input
RF(TV) / Video Input
Are waveforms at pin9(Y), 11(CB) and 13(CR) of I202?
Yes
Check I202
Yes
Are waveforms at pin39(Y), 41(CB) and 43(CR) of I202?
No
Check Input terminal
No
Are waveforms at pin21(Y), 22(CB) and 23(CR) of I501?
Yes
Check Q508, Q509, and Q510
No
PAL/SECAM
NTSC
Are waveforms at pin44 (Y) and 43 (C) of I501?
Yes
Check I501
Yes
Are waveforms at pin5 (Y) and 7 (C) of I501?
No
Are waveforms at pin25 (Y) and 27 (C) of I301?
Yes
Check Q322～Q327 X304 or X305, etc.
No
Are waveforms at pin89 (Y) and 88 (C) of I302?
Yes
Check Q317～Q324, Q328, X302 or X303, etc.
No
Are waveforms at pin7 of I301?
Yes
Check I301
No
Are waveforms at pin93 of I302?
Yes
Check I3A1
No
Are waveforms at pin44 of I201?
Yes
Check Q203, Q301～Q307 etc.
No
Check I201, U101 etc.


①Trouble of Sub picture
Are waveforms at pin1(Y), pin3(CB) and pin5(CR) of PYS?
Yes
Check Formatter PWB
No
Are waveforms at pin 33(Y), 32(CB) and 31(CR) of I202?
Yes
Check Q208, Q209, Q214, Q215, etc.
No
Component Input
RF(TV) / Video Input
No
Are waveforms at pin9(Y), 11(CB) and 13(CR) of I202?
Yes
Check I202
Yes
Are waveforms at pin45(Y), 47(CB) and 1(CR) of I202?
No
Check Input terminal
No
Are waveforms at pin21(Y), 22(CB) and 23(CR) of I502?
Yes
Check Q511, Q512, and Q513
No
Are waveforms at pin1 of I502?
Yes
Check I502.
No
Are waveforms at pin53 of I201?
Yes
Check Q202, etc.
No
Check I201, U101 etc.

## ● Trouble Shooting (Synchronization) ....... for 42PD5100, 32/3742PD5200, 55PMA500E

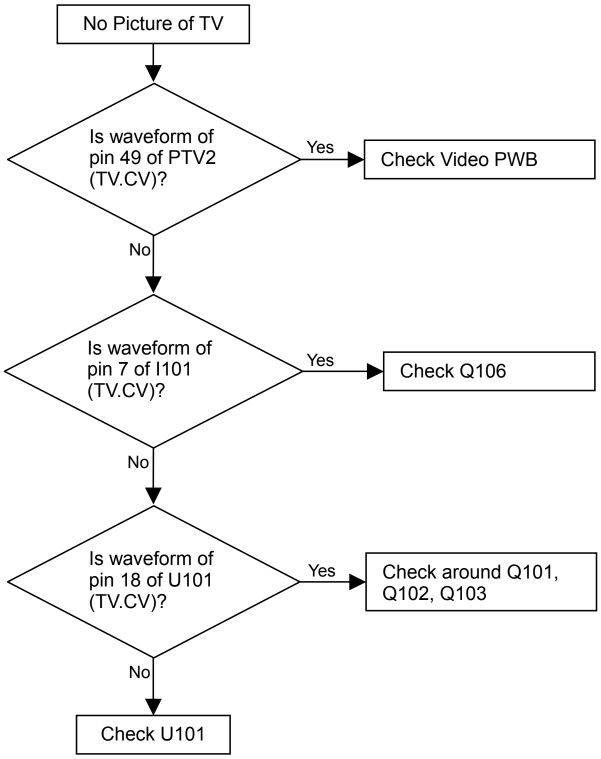
[VIDEO PWB Circuit]

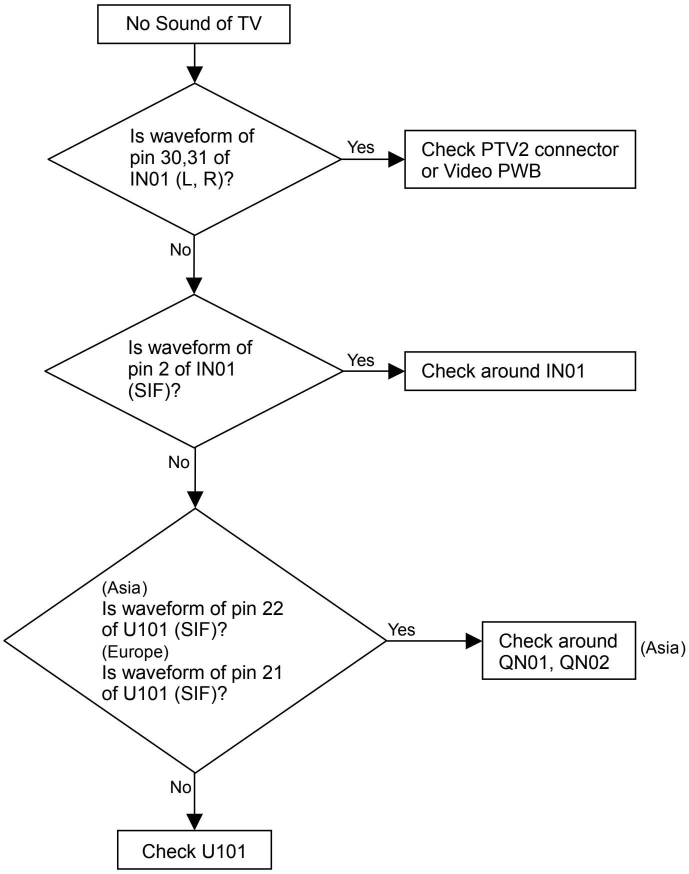

No Sync.
Single picture or Main picture
Sub picture
①Trouble of Sub picture
Are waveform at TP01(H) and TP02(V) ?
Yes
Check Formatter PWB
No
Are waveform at pin 16(H) and 28(V) of I601?
Yes
Check I602
No
Component Input (without 480i/576i)
RF(TV) / Video Input / Component (480i/576i)
Are waveforms at pin24 of I601?
Yes
Check I601
Yes
Are waveforms at pin3(H) and pin4 (V) of I601?
No
Check Q601, Q603, Q609, Q610, etc.
No
Are waveforms at pin9 (H) and pin4 (V) of I501?
Yes
Check I602
No
Check I501, etc.

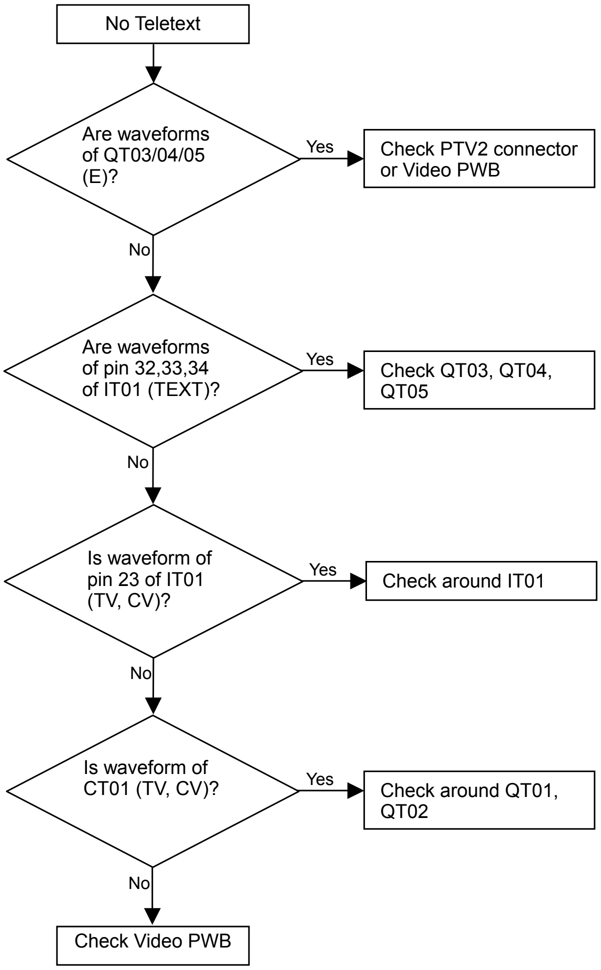

①Trouble of Sub picture
Are waveforms at TP03(H) and TP04(V) ?
Yes
Check Formatter PWB.
No
Are waveforms at pin 19(H) and 29(V) of I601?
Yes
Check I602
No
Component Input (without 480i/576i)
RF(TV) / Video Input / Component (480i/576i)
Are waveforms at pin26 of I601?
Yes
Check I601
Yes
Are waveforms at pin1(H) and Pin2 (V) of I601?
No
Check Q606, Q608, Q609, Q610, etc.
No
Are waveforms at pin9 (H) and pin4 (V) of I502?
Yes
Check I602
No
Check I502,etc.

## ● Troubleshooting (TV / Teletext) ....... for 32/37/42PD5000, 55PMA550E

[TUNER PWB]


No Picture of TV
Is waveform of pin 49 of PTV2 (TV.CV)?
Yes
Check Video PWB
No
Is waveform of pin 7 of I101 (TV.CV)?
Yes
Check Q106
No
Is waveform of pin 18 of U101 (TV.CV)?
Yes
Check around Q101, Q102, Q103
No
Check U101


No Sound of TV
Is waveform of pin 30,31 of IN01 (L, R)?
Yes
Check PTV2 connector or Video PWB
No
Is waveform of pin 2 of IN01 (SIF)?
Yes
Check around IN01
No
(Asia)
Is waveform of pin 22 of U101 (SIF)?
(Europe)
Is waveform of pin 21 of U101 (SIF)?
Yes
Check around QN01, QN02
(Asia)
No
Check U101


No Teletext
Are waveforms of QT03/04/05 (E)?
Yes
Check PTV2 connector or Video PWB
No
Are waveforms of pin 32,33,34 of IT01 (TEXT)?
Yes
Check QT03, QT04, QT05
No
Is waveform of pin 23 of IT01 (TV, CV)?
Yes
Check around IT01
No
Is waveform of CT01 (TV, CV)?
Yes
Check around QT01, QT02
No
Check Video PWB

# *8. Self-Diagnosis Function*

This chassis has 2 modes of self-diagnosis function.

(1) PDP panel check mode: It indicates the one latest record of the PDP panel failure with blinking of the power indication light (LED).

(2) Signal circuit check mode: It indicates the check result on some points of the signal circuit and the history of them with On-Screen Display (OSD).

## ● PDP panel self-diagnosis function

This function is for a PDP panel failure with no picture.

To enter to this Self-Diagnosis mode, follow the next steps:

Preparation:

1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
2) Turn the power off by the SUB-POWER(⏻|) button of the monitor or the remote control.

**Procedure:**

1) Press the SUB-POWER(⏻|) button and ▼ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
2) It generates red blinking series of the power indicator light.
3) Any operation would cancel the Self -Diagnosis mode.
4) The next table shows the PDP PWB in which failure most probably would be allocated according to the number of blinks.

| Number of red blinks of power indication light | Presumed failing PWB of PDP panel |
|---|---|
| 1 | Logic |
| 2 | X-SUS |
| 3 | Y-SUS, SDM |
| 4 | X-SUS, Y-SUS, SDM, PSU |
| 5 | ABUS, ADM, PSU |
| 6 | ADM temperature |
| 7 | ADM temperature |
| 8 | All of above-mentioned PWB's |

SDM: Scan Driver Module

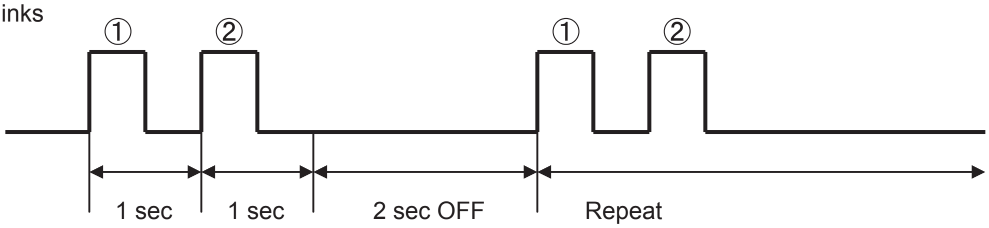
PSU: Power Supply Unit

ADM: Address Driver Module

Note) SDM is permanently contacted to glass part

[Blinking condition of power indication light]

Ex. 2 blinks



## ● Signal circuit self-diagnosis function

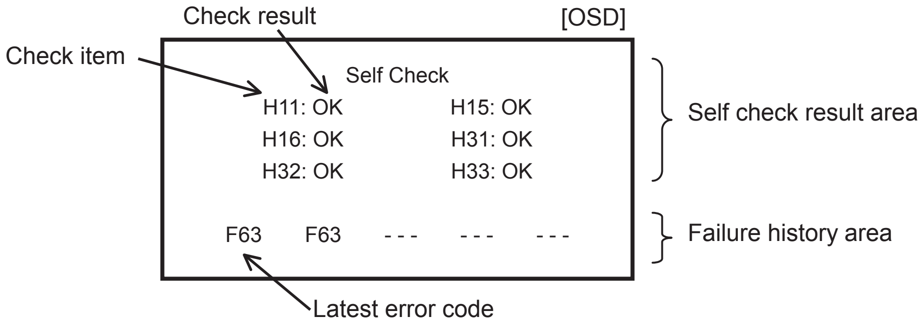
This function is for the failure of the signal circuit, for example the phenomenon as below:
"Sometimes power turns off abnormally." "Sometimes picture disappears abnormally."
To enter to this Self-Diagnosis mode, follow the next steps:

**Preparation:**

1) The Power Cord should be connected to AC line and the Main Power switch should be turned on.
2) Turn the power off by the SUB-POWER(⏻) button of the monitor or the remote control.

**Procedure:**

1) Press the SUB-POWER(⏻) button and ▲ button on the bottom of the monitor at the same time, and keep it for more than 5 seconds after the power turned on.
2) The monitor will be turned on, and it will display On-Screen Display of the Self-check result and the failure history as below.
3) Any operation would cancel the Self -Diagnosis mode.
4) The following table shows the OSD symbols and contents of failure PWB in which failure most probably would be allocated according to the number of blinks.



| Code | stored up in failure history | Self checking item | Problem | Phenomenon | Cause |
|---|---|---|---|---|---|
| C10 (* | – | – | No sync. (Snow noise) | OSD of " ! Check Antenna " appears. | No connection of ANT cable<br>Preset tuning is not yet |
| H11 (* | – | ○ | Tuner problem | Cannot receive the main signal from antenna | Communication error of U101 |
| H15 | – | ○ | Composite video SW IC problem | Cannot receive picture and audio<br>Cannot change input mode | Communication error of I201 |
| H16 | – | ○ | Component video SW IC problem | No component picture<br>Cannot change input mode | Communication error of I202 |
| H31 | – | ○ | Color demodulator IC problem | Abnormal color<br>Dark picture | Communication error of I501 |
| H32 | – | ○ | Sync. separator IC problem | Unsynchronized picture | Communication error of I601 |
| H33 | – | ○ | 3D Y/C separator IC problem | Abnormal color<br>Dark picture / No picture | Communication error of I302 |
| H71 (* | – | ○ | T/Text IC problem | No T/Text<br>No picture | Communication error of IT01 |
| H72 (* | – | ○ | Sound MPX IC problem | No sound from antenna<br>Cannot change MPX sound | Communication error of IN01 |
| F63 | ○ | – | $I^2C$-bus latch problem | Cannot store setting data (Ex. Channel, Volume etc.) | SCL3/SDA3 latched up |

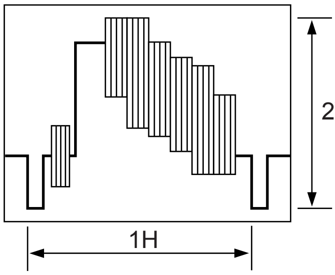
*) This code is no meaning for the models except 32/42PD5000TA because those are without tuner circuit.

If you clear history of failure, make FACTORY RESET: enter the factory setting mode; press the SUB-POWER(⏻) button, INPUT SELECT(⇥) button and ▲ button on the bottom of the monitor at the same time. And keep it for more than 5 seconds after the power turned on.

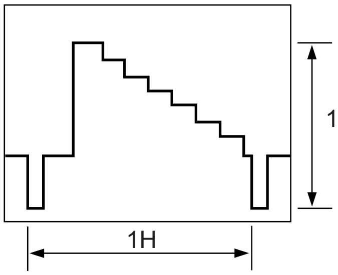
# *9. Basic circuit diagram*

## ● Waveform

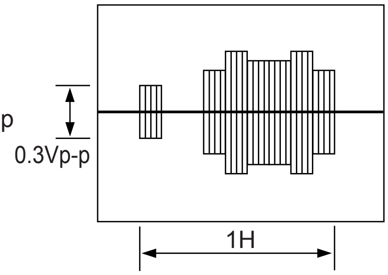
① I201(MAIN.V)(44) PIN
② I201(SUB.V)(53) PIN



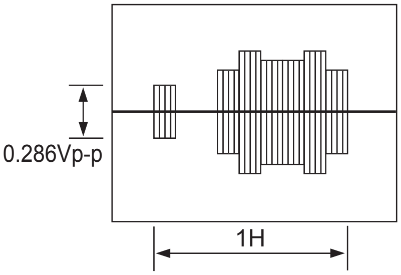
③ I501 YIN(3L)(44) PIN
④ I501 YIN(3D)(5) PIN



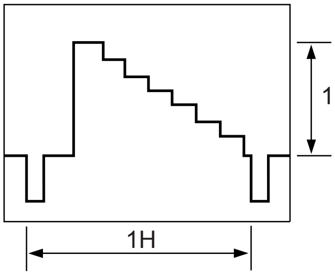
⑤ I501 CIN(3L)(43) PIN



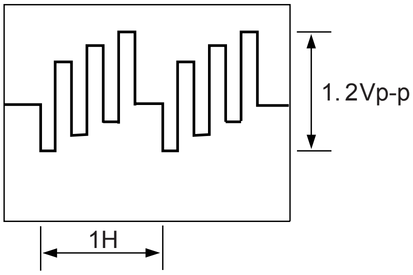
⑥ I501 CIN(3D)(7) PIN



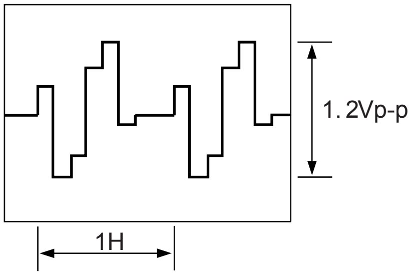
⑦ PYM(MY)(1)PIN
⑧ PYS(SY)(1)PIN



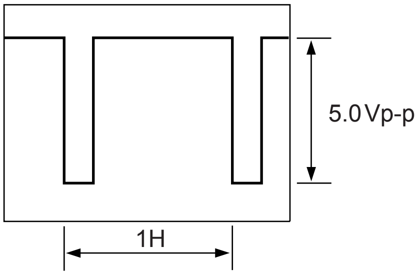
⑨ PYM(MPB)(3)PIN
⑩ PYS(SPB)(3)PIN



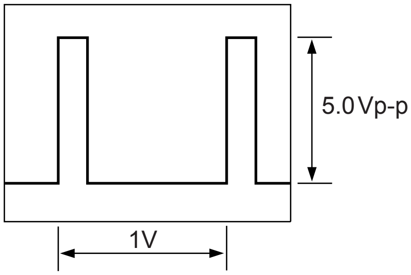
⑪ PYM(MPR)(5)PIN
⑫ PYS(SPR)(5)PIN



⑬ TP01(MH)
⑭ TP03(SH)

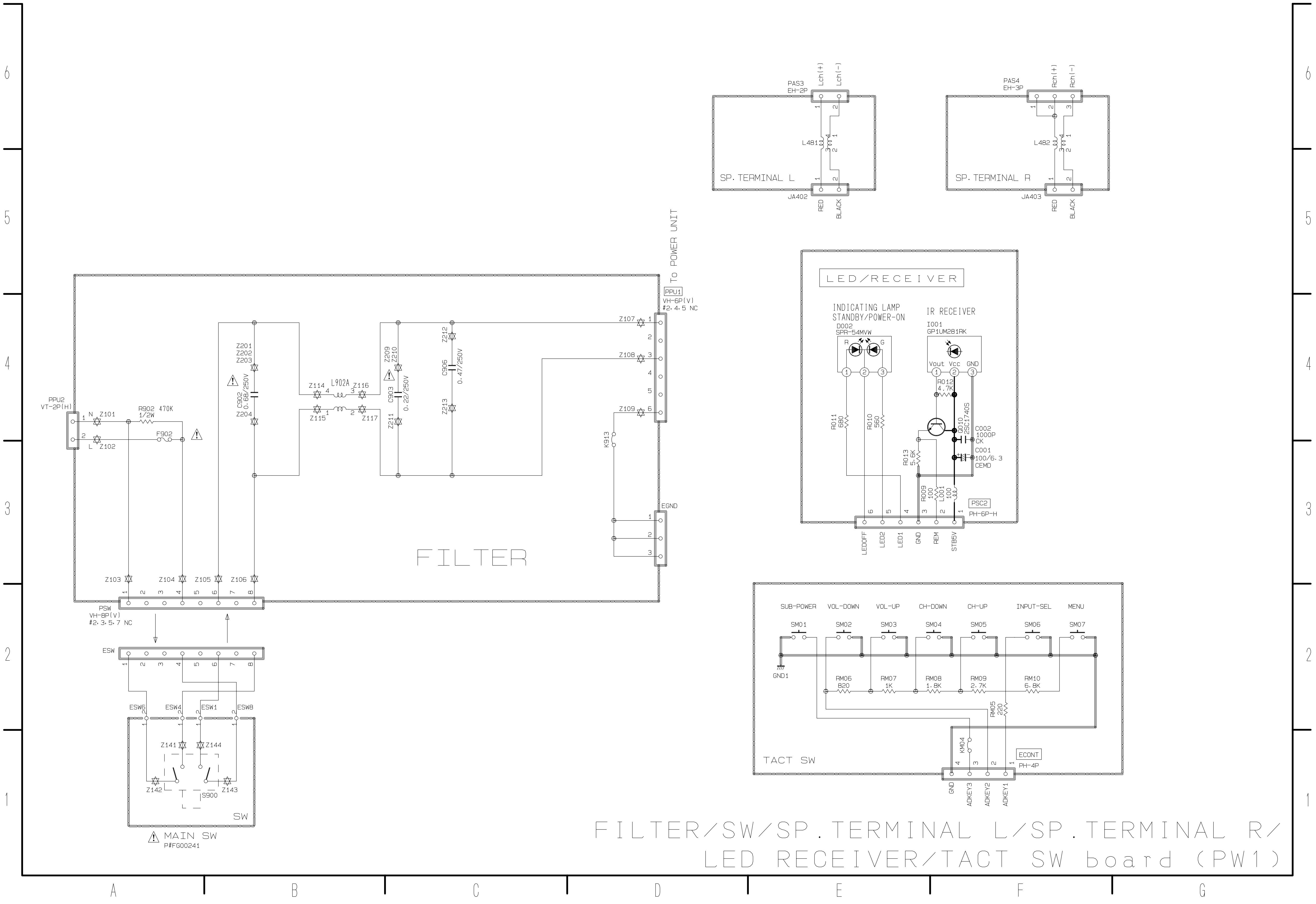


⑮ TP02(MV)
⑯ TP04(SV)

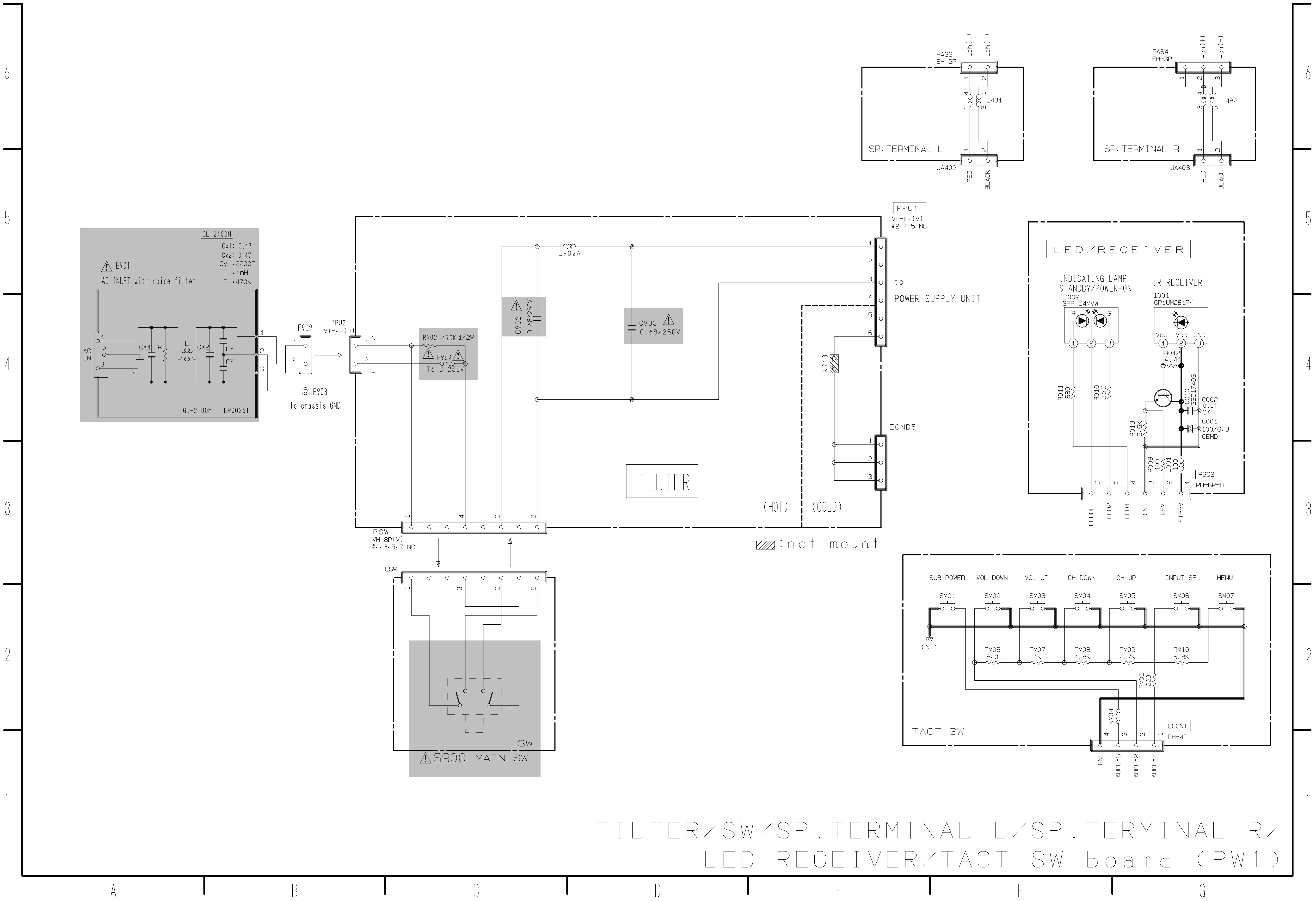


## Basic circuit diagram list

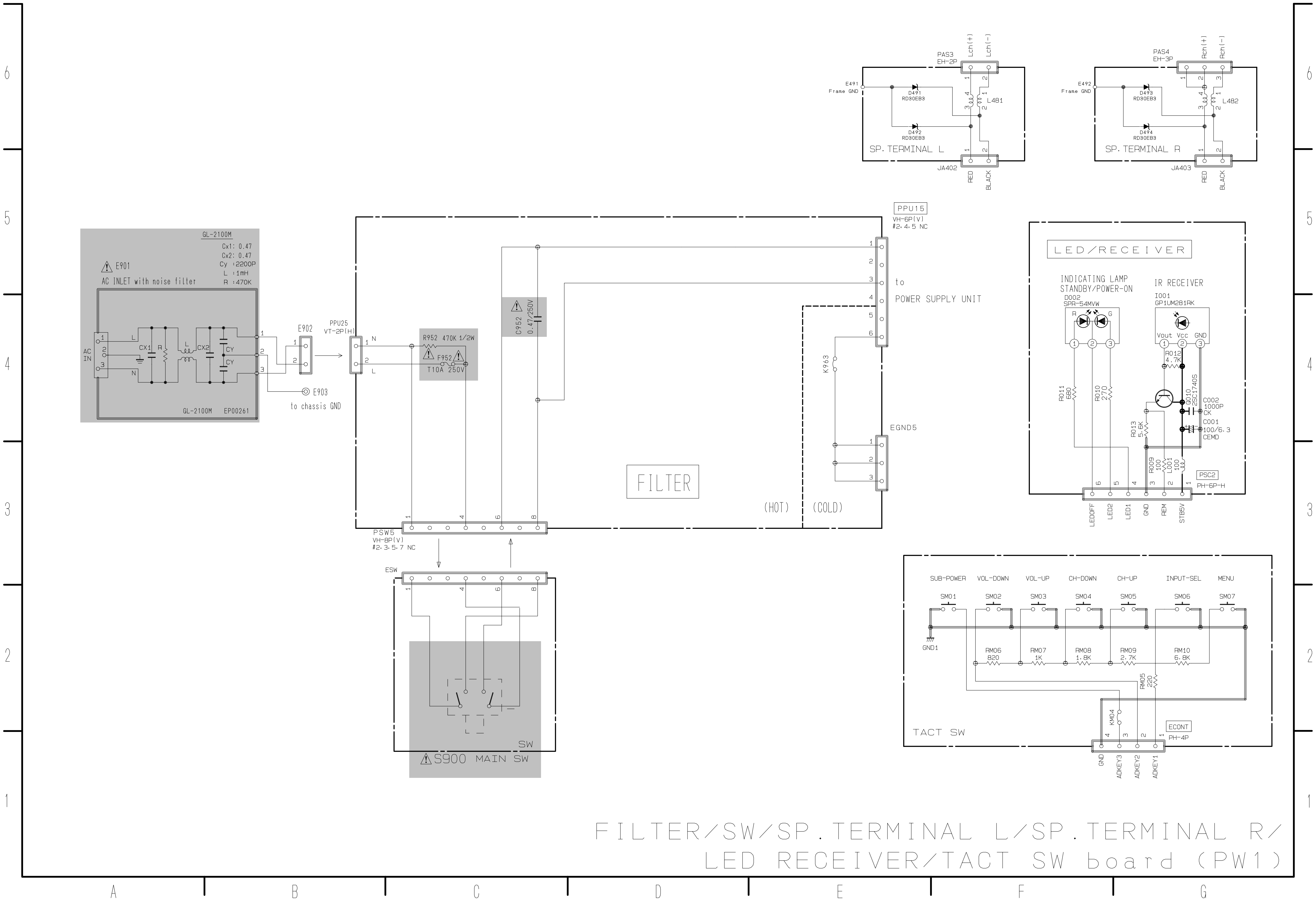
FILTER/SW/SP. TERMINAL L/SP. TERMINAL R/
LED RECEIVER/TACT SW board ........................................ 49
AUDIO board ........................................................................ 52
JOINT board ......................................................................... 54
VIDEO board 1 ..................................................................... 55
VIDEO board 2 ..................................................................... 56
TUNER board ....................................................................... 58


6
5
4
3
2
1
A
B
C
D
E
F
G
PAS3
EH-2P
Lch(+)
Lch(-)
L481
SP. TERMINAL L
JA402
RED
BLACK
PAS4
EH-3P
Rch(+)
Rch(-)
L482
SP. TERMINAL R
JA403
RED
BLACK
To POWER UNIT
PPU1
VH-6P(V)
#2, 4, 5 NC
Z107
Z108
Z109
K913
EGND
PPU2
VT-2P(H)
N
L
Z101
Z102
R902 470K
1/2W
F902
Z201
Z202
Z203
C902
0.68/250V
Z204
Z114
Z115
L902A
Z116
Z117
Z209
Z210
C903
0.22/250V
Z211
Z212
C906
0.47/250V
Z213
FILTER
Z103
Z104
Z105
Z106
PSW
VH-8P(V)
#2, 3, 5, 7 NC
ESW
ESW6
ESW4
ESW1
ESW8
Z141
Z144
Z142
Z143
S900
SW
MAIN SW
P#FG00241
LED/RECEIVER
INDICATING LAMP
STANDBY/POWER-ON
D002
SPR-54MVW
R
G
IR RECEIVER
I001
GP1UM281RK
Vout
Vcc
GND
R012
4.7K
R011
680
R010
560
Q010
2SC1740S
C002
1000P
CK
C001
100/6.3
CEMD
R013
5.6K
R009
100
L001
100
PSC2
PH-6P-H
LEDOFF
LED2
LED1
GND
REM
STB5V
SUB-POWER
VOL-DOWN
VOL-UP
CH-DOWN
CH-UP
INPUT-SEL
MENU
SM01
SM02
SM03
SM04
SM05
SM06
SM07
GND1
RM06
820
RM07
1K
RM08
1.8K
RM09
2.7K
RM10
6.8K
RM05
220
KM04
ECONT
PH-4P
TACT SW
GND
ADKEY3
ADKEY2
ADKEY1

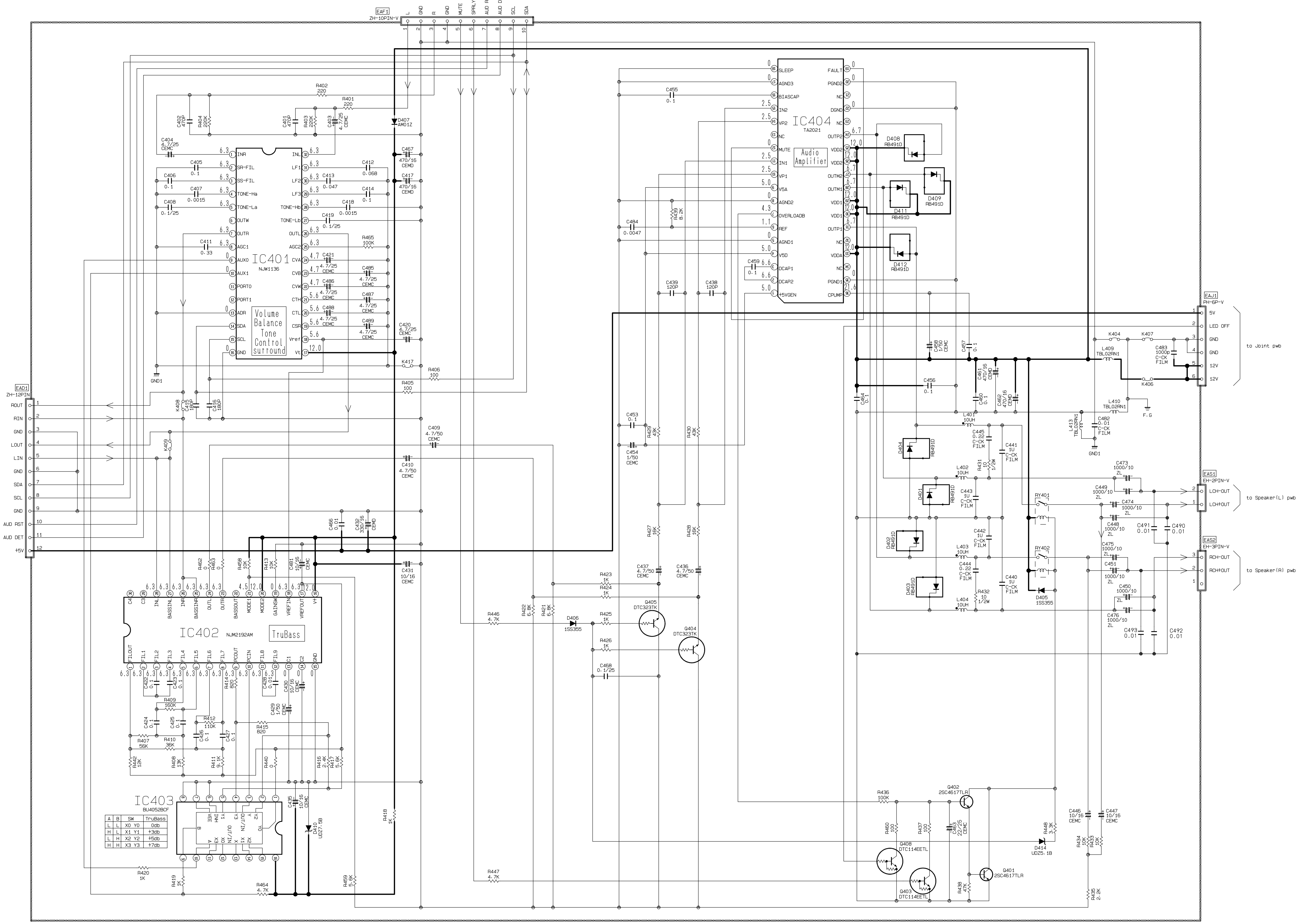
FILTER/SW/SP.TERMINAL L/SP.TERMINAL R/
LED RECEIVER/TACT SW board (PW1)


GL-2100M
Cx1: 0.47
Cx2: 0.47
Cy :2200P
L :1mH
R :470K
E901
AC INLET with noise filter
AC IN
L
N
CX1
R
CX2
CY
GL-2100M EP00261
E902
E903
to chassis GND
PPU2
VT-2P(H)
N
L
R902 470K 1/2W
F952
T6.3 250V
C902 0.68/250V
L902A
C903 0.68/250V
K913
FILTER
(HOT)
(COLD)
PSW
VH-8P(V)
#2.3.5.7 NC
ESW
▨:not mount
PPU1
VH-6P(V)
#2.4.5 NC
to
POWER SUPPLY UNIT
EGND5
SW
S900 MAIN SW
PAS3
EH-2P
Lch(+)
Lch(-)
L481
SP.TERMINAL L
JA402
RED
BLACK
PAS4
EH-3P
Rch(+)
Rch(-)
L482
SP.TERMINAL R
JA403
RED
BLACK
LED/RECEIVER
INDICATING LAMP
STANDBY/POWER-ON
D002
SPR-54MVW
IR RECEIVER
I001
GP1UM281RK
Vout Vcc GND
R012 4.7K
Q010 2SC1740S
C002 0.01 CK
C001 100/6.3 CEMD
R011 680
R010 560
R013 5.6K
R009 100
L001 100
PSC2
PH-6P-H
LEDOFF
LED2
LED1
GND
REM
STB5V
SUB-POWER
VOL-DOWN
VOL-UP
CH-DOWN
CH-UP
INPUT-SEL
MENU
SM01
SM02
SM03
SM04
SM05
SM06
SM07
GND1
RM06 820
RM07 1K
RM08 1.8K
RM09 2.7K
RM10 6.8K
RM05 220
KM04
TACT SW
ECONT
PH-4P
GND
ADKEY3
ADKEY2
ADKEY1
A
B
C
D
E
F
G
1
2
3
4
5
6

FILTER/SW/SP.TERMINAL L/SP.TERMINAL R/
LED RECEIVER/TACT SW board (PW1)

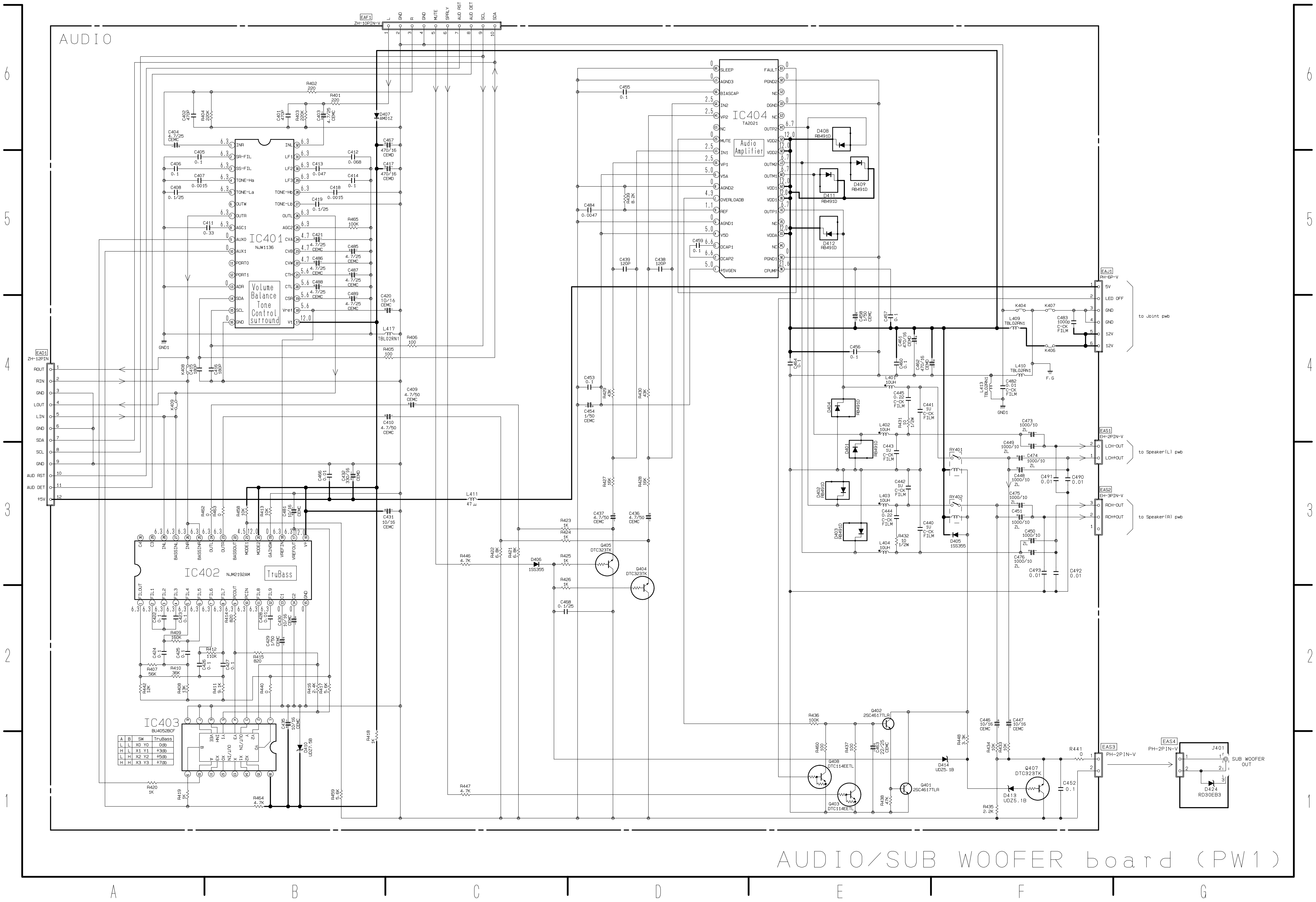

GL-2100M
Cx1: 0.47
Cx2: 0.47
Cy :2200P
L :1mH
R :470K
E901
AC INLET with noise filter
AC IN
CX1
R
L
CX2
CY
GL-2100M EP00261
E902
E903
to chassis GND
PPU25
VT-2P(H)
N
L
R952 470K 1/2W
F952
T10A 250V
C952
0.47/250V
PPU15
VH-6P(V)
#2.4.5 NC
to
POWER SUPPLY UNIT
K963
EGND5
FILTER
(HOT)
(COLD)
PSW5
VH-8P(V)
#2.3.5.7 NC
ESW
SW
S900 MAIN SW
PAS3
EH-2P
Lch(+)
Lch(-)
E491
Frame GND
D491
RD30EB3
D492
RD30EB3
L481
SP.TERMINAL L
JA402
RED
BLACK
PAS4
EH-3P
Rch(+)
Rch(-)
E492
Frame GND
D493
RD30EB3
D494
RD30EB3
L482
SP.TERMINAL R
JA403
RED
BLACK
LED/RECEIVER
INDICATING LAMP
STANDBY/POWER-ON
D002
SPR-54MVW
R
G
IR RECEIVER
I001
GP1UM281RK
Vout Vcc GND
R012
4.7K
R011
680
R010
270
Q010
2SC1740S
C002
1000P
CK
C001
100/6.3
CEMD
R013
5.6K
R009
100
L001
100
PSC2
PH-6P-H
LEDOFF
LED2
LED1
GND
REM
STB5V
SUB-POWER
VOL-DOWN
VOL-UP
CH-DOWN
CH-UP
INPUT-SEL
MENU
SM01
SM02
SM03
SM04
SM05
SM06
SM07
GND1
RM06
820
RM07
1K
RM08
1.8K
RM09
2.7K
RM10
6.8K
RM05
220
KM04
TACT SW
ECONT
PH-4P
GND
ADKEY3
ADKEY2
ADKEY1
A
B
C
D
E
F
G
1
2
3
4
5
6

FILTER/SW/SP.TERMINAL L/SP.TERMINAL R/
LED RECEIVER/TACT SW board (PW1)


EAF1
ZH-10PIN-V
L
GND
R
GND
MUTE
SPRLY
AUD RST
AUD DET
SCL
SDA
EAD1
ZH-12PIN
ROUT
RIN
GND
LOUT
LIN
GND
SDA
SCL
GND
AUD RST
AUD DET
+5V
IC401
NJW1136
Volume
Balance
Tone
Control
surround
INR
SR-FIL
SS-FIL
TONE-Ha
TONE-La
OUTW
OUTR
AGC1
AUX0
AUX1
PORT0
PORT1
ADR
SDA
SCL
GND
INL
LF1
LF2
LF3
TONE-Hb
TONE-Lb
OUTL
AGC2
CVA
CVB
CVW
CTH
CTL
CSR
Vref
Vt
GND1
IC402
NJM2192AM
TruBass
IC403
BU4052BCF
IC404
TA2021
Audio
Amplifier
SLEEP
AGND3
BIASCAP
IN2
VP2
NC
MUTE
IN1
VP1
V5A
AGND2
OVERLOADB
REF
AGND1
V5D
DCAP1
DCAP2
5VGEN
FAULT
PGND2
NC
DGND
OUTP2
VDD2
OUTM2
OUTM1
VDD1
OUTP1
VDDA
PGND1
CPUMP
D408 RB491D
D409 RB491D
D411 RB491D
D412 RB491D
EAJ1
PH-6P-V
5V
LED OFF
GND
GND
12V
12V
to Joint pwb
EAS1
EH-2PIN-V
LCH-OUT
LCH+OUT
to Speaker(L) pwb
EAS2
EH-3PIN-V
RCH-OUT
RCH+OUT
to Speaker(R) pwb
RY401
RY402
Q401 2SC4617TLR
Q402 2SC4617TLR
Q403 DTC114EETL
Q404 DTC323TK
Q405 DTC323TK
Q408 DTC114EETL
D405 1SS355
D406 1SS355
D407 AM01Z
D410 UDZ7.5B
D414 UDZ5.1B
F.G

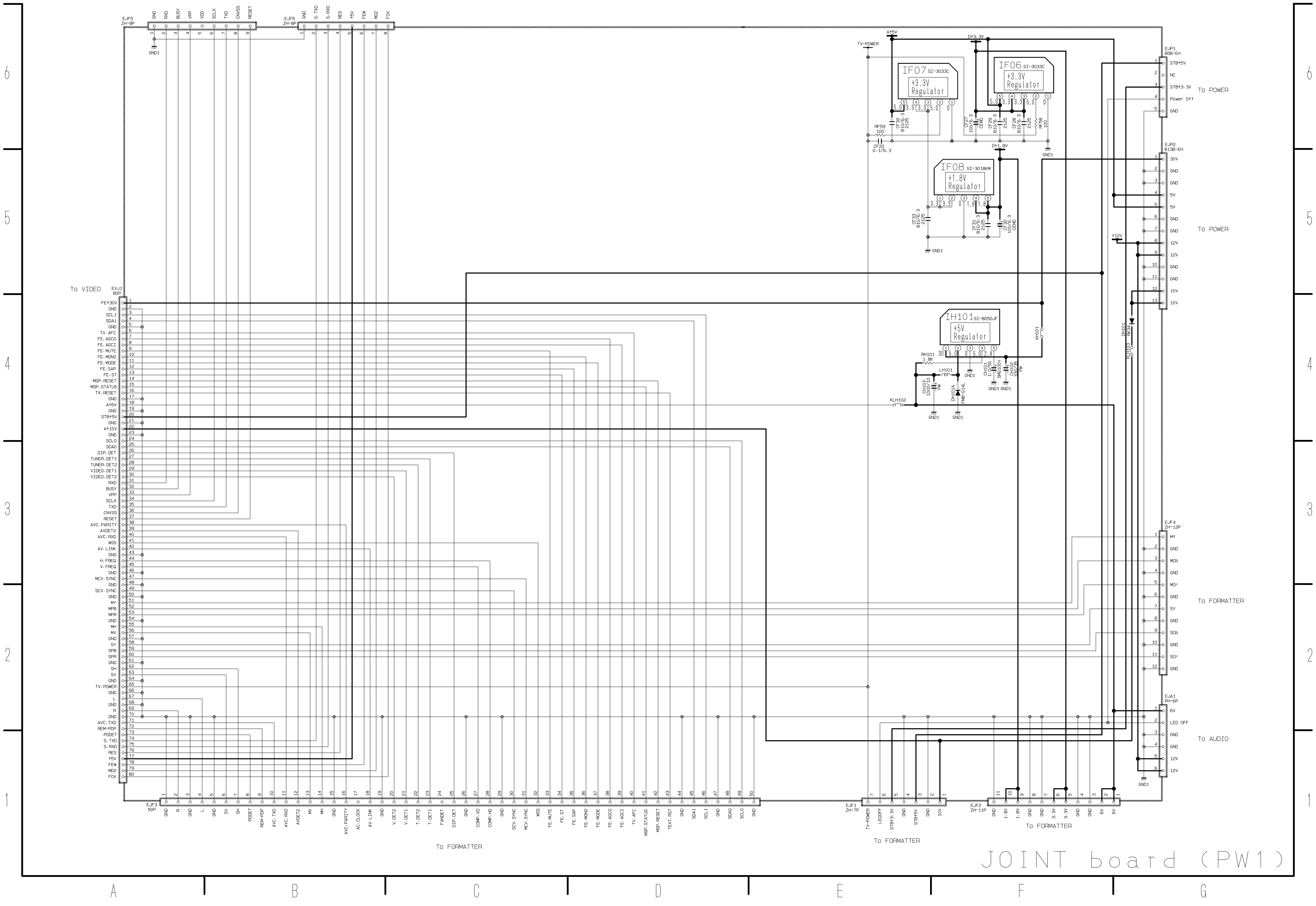
| A | B | SW | TruBass |
|---|---|---|---|
| L | L | X0 Y0 | 0db |
| H | L | X1 Y1 | +3db |
| L | H | X2 Y2 | +5db |
| H | H | X3 Y3 | +7db |

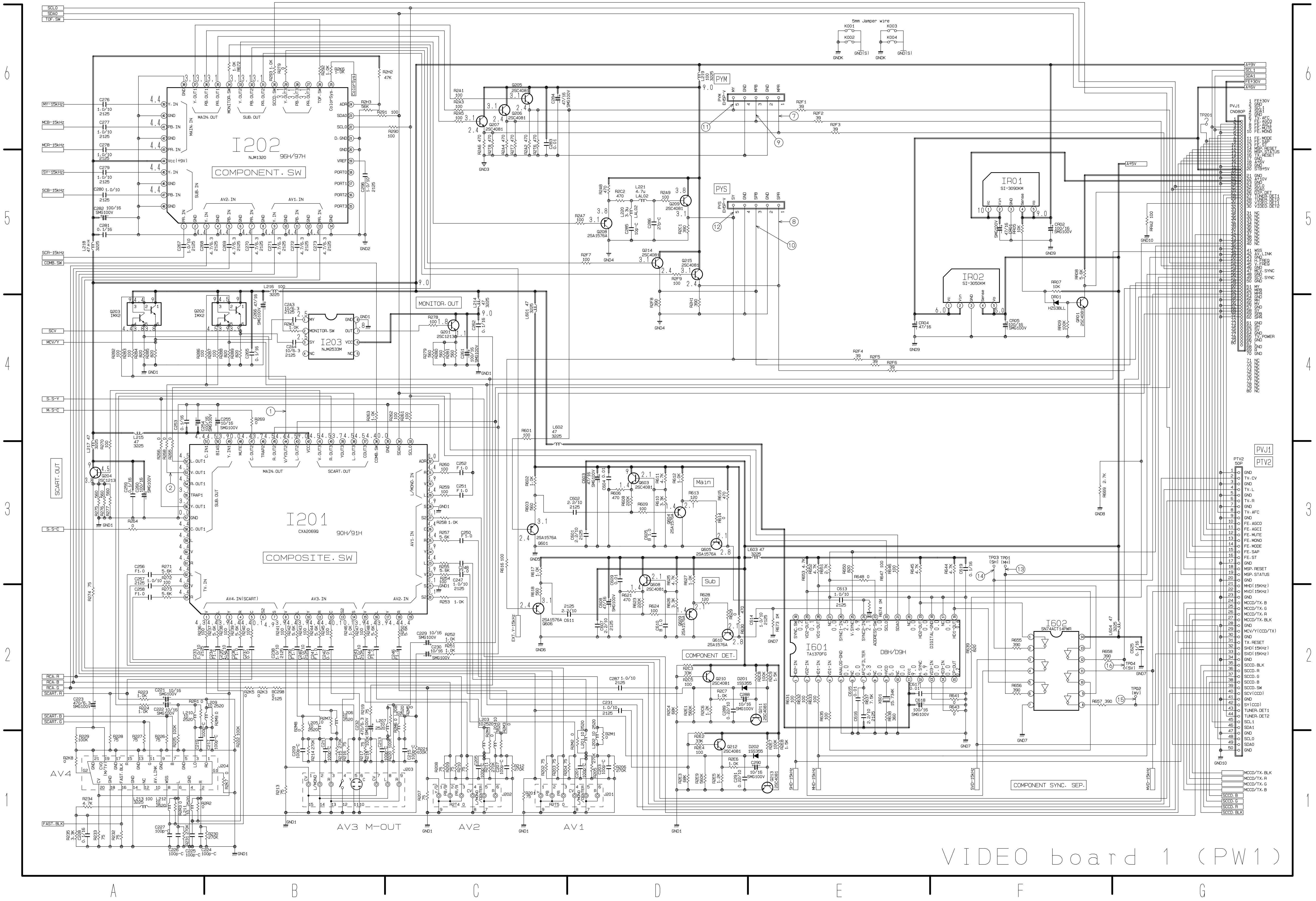
AUDIO board (PW1)

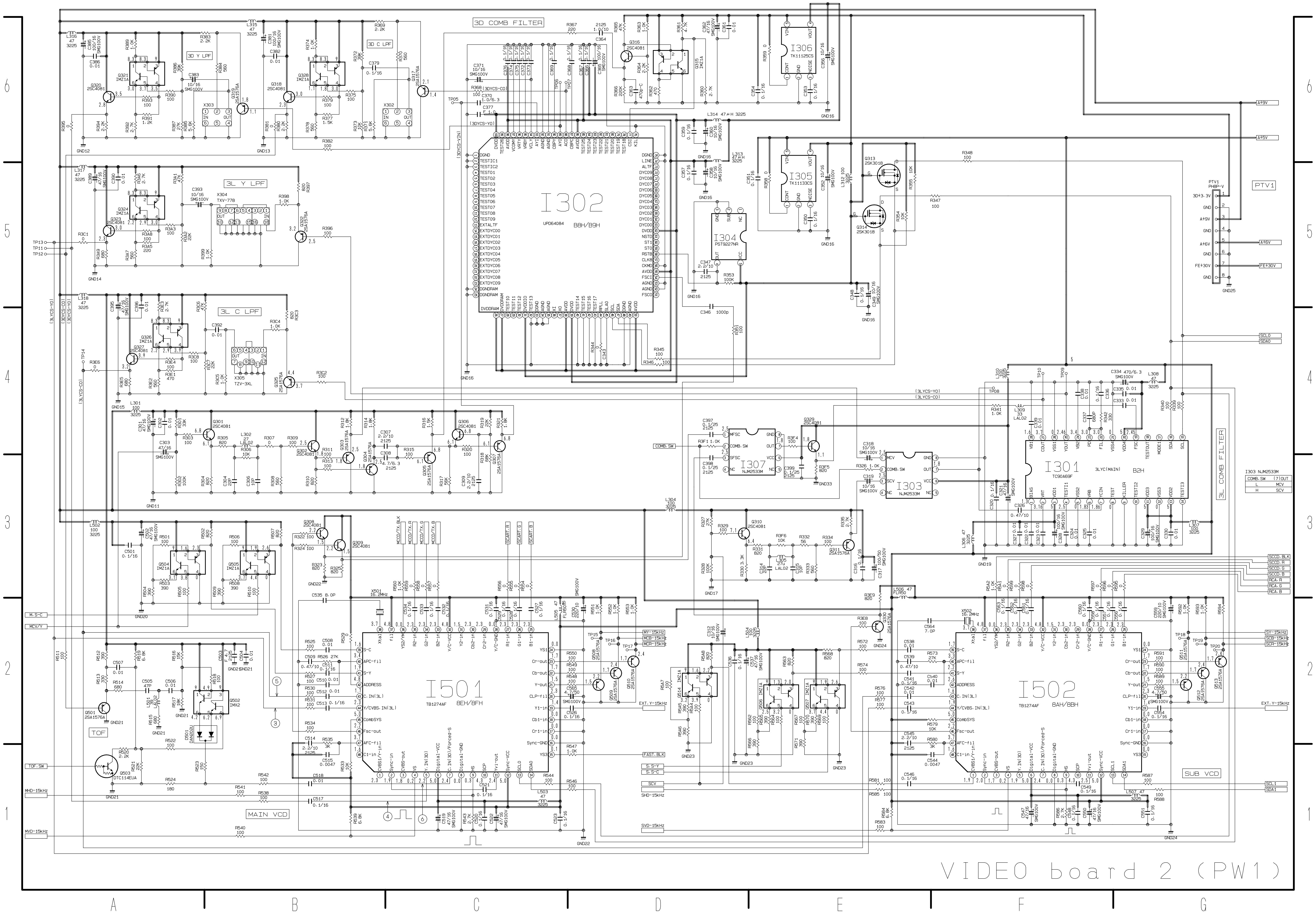

AUDIO
EAF1
ZH-10PIN-V
L
GND
R
GND
MUTE
SPPLY
AUD RST
AUD DET
SCL
SDA
IC401
NJW1136
Volume
Balance
Tone
Control
surround
IC402
NJM2192AM
TruBass
IC403
BU4052BCF
IC404
TA2021
Audio
Amplifier
EAD1
ZH-12PIN
ROUT
RIN
GND
LOUT
LIN
GND
SDA
SCL
GND
AUD RST
AUD DET
+5V
EAJ1
PH-6P-V
5V
LED OFF
GND
GND
12V
12V
to Joint pwb
EAS1
EH-2PIN-V
LCH-OUT
LCH+OUT
to Speaker(L) pwb
EAS2
EH-3PIN-V
RCH-OUT
RCH+OUT
to Speaker(R) pwb
EAS3
PH-2PIN-V
EAS4
PH-2PIN-V
J401
SUB WOOFER
OUT
D424
RD30EB3
RY401
RY402
L411
Q401 2SC4617TLR
Q402 2SC4617TLR
Q403 DTC114EETL
Q404 DTC323TK
Q405 DTC323TK
Q407 DTC323TK
Q408 DTC114EETL
D413 UDZ5.1B
D414 UDZ5.1B
D405 1SS355
D406 1SS355
D407 AM01Z
D410 UDZ7.5B
1
2
3
4
5
6
A
B
C
D
E
F
G

| A | B | SW | TruBass |
|---|---|---|---|
| L | L | X0 Y0 | 0db |
| H | L | X1 Y1 | +3db |
| L | H | X2 Y2 | +5db |
| H | H | X3 Y3 | +7db |

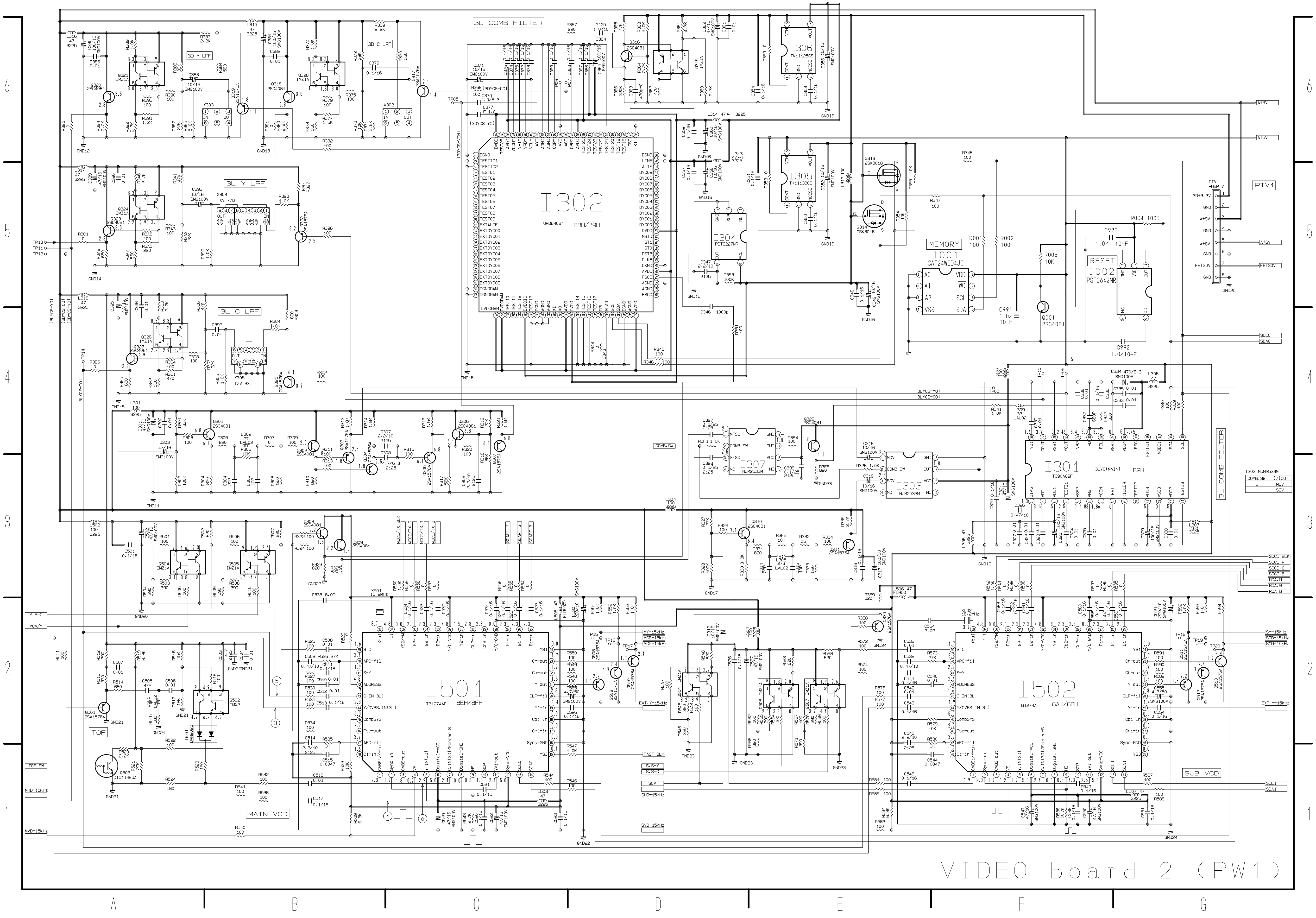
AUDIO/SUB WOOFER board (PW1)

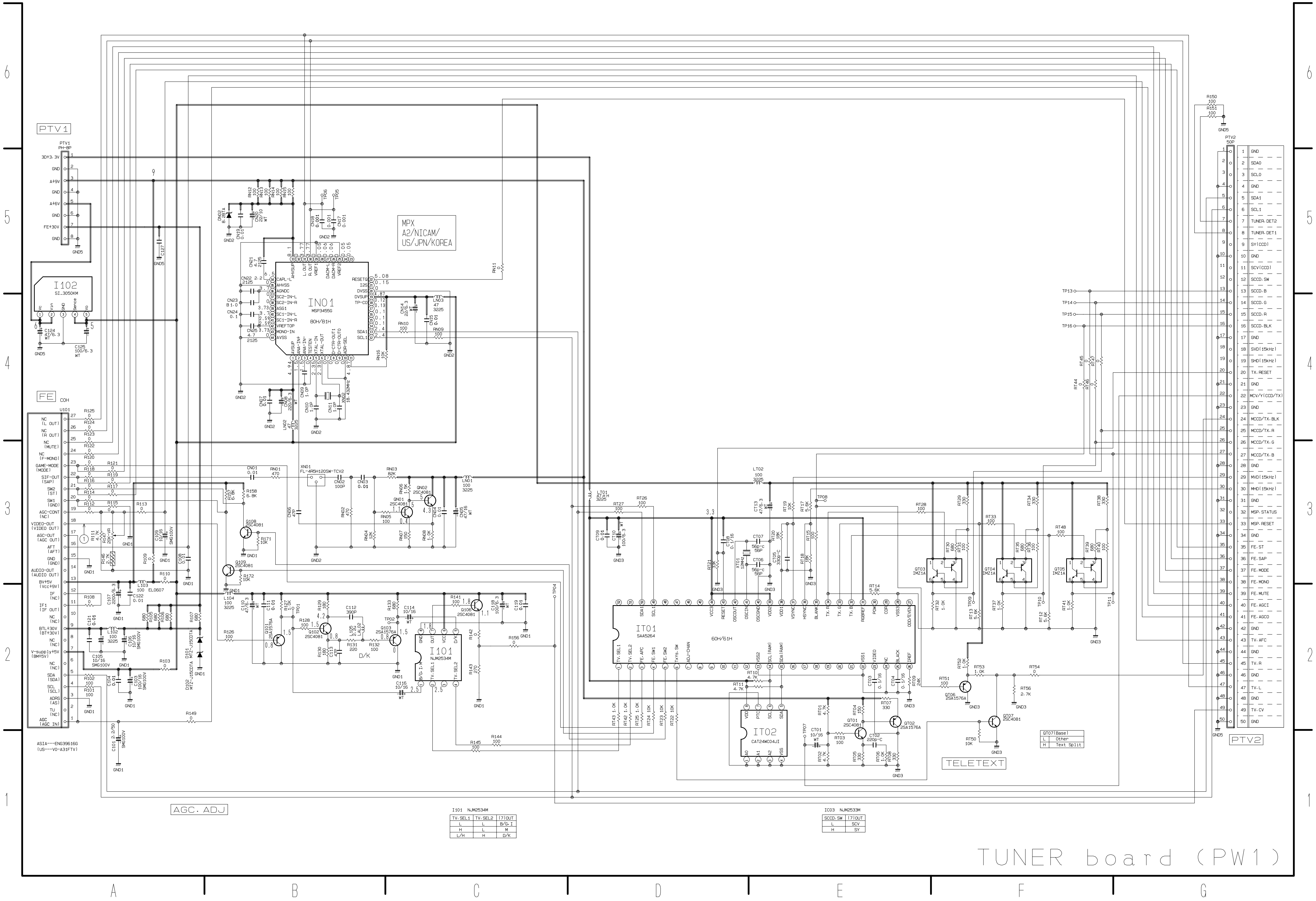

JOINT board (PW1)
EJF5 ZH-9P
GND RXD BUSY VPP VDD SCLK TXD CNVSS RESET
GND1
EJF6 ZH-8P
GND S-TXD S-RXD RES +5V FEW MD2 FCK
TV-POWER
A+5V
D+3.3V
IF07 SI-3033C +3.3V Regulator
IF06 SI-3033C +3.3V Regulator
IF08 SI-3018KM +1.8V Regulator
IH101 SI-8050JF +5V Regulator
D+1.8V
+12V
RF59 100
CF20 0.1/6.3
RF58 100
RH101 1.8K
LH101
KLH102
KH101
KLH103
DH101 RK34
DH101A FMB-G14L
To VIDEO
EVJ1 80P
FE+30V
GND
SCL1
SDA1
GND
TV.AFC
FE.AGCD
FE.AGCI
FE.MUTE
FE.MONO
FE.MODE
FE.SAP
FE.ST
MSP.RESET
MSP.STATUS
TX.RESET
GND
A+6V
GND
STB+5V
GND
A+10V
GND
SCL0
SDA0
DIP.DET
TUNER.DET1
TUNER.DET2
VIDEO.DET1
VIDEO.DET2
RXD
BUSY
VPP
SCLK
TXD
CNVSS
RESET
AVC.PARITY
AVDET2
AVC.RXD
WSS
AV.LINK
GND
H.FREQ
V.FREQ
GND
MCV.SYNC
GND
SCV.SYNC
GND
MY
MPB
MPR
GND
MH
MV
GND
SY
SPB
SPR
GND
SH
SV
GND
TV.POWER
GND
L
GND
R
GND
AVC.TXD
REM-PDP
PDDET
S.TXD
S.RXD
RES
+5V
FEW
MD2
FCK
EJP1 B5B-EH
STB+5V
NC
STB+3.3V
Power Off
GND
To POWER
EJP2 B13B-EH
30V
GND
GND
5V
5V
GND
GND
12V
12V
GND
GND
10V
10V
To POWER
EJF4 ZH-12P
MY
GND
MCb
GND
MCr
GND
SY
GND
SCb
GND
SCr
GND
To FORMATTER
EJA1 PH-6P
6V
LED OFF
GND
GND
12V
12V
To AUDIO
EJF3 50P
GND R GND L GND SV SH PDDET REM-PDP AVC.TXD AVC.RXD AVDET2 MV MH GND AVC.PARITY AC.CLOCK AV.LINK GND V.DET2 V.DET1 T.DET2 T.DET1 FANDET DIP.DET GND COMP.VD COMP.HD GND SCV.SYNC MCV.SYNC WSS FE.MUTE FE.ST FE.SAP FE.MONO FE.MODE FE.AGCD FE.AGCI TV.AFC MSP.STATUS MSP.RESET TEXT.RST GND SDA1 SCL1 GND SDA0 SCL0 GND
To FORMATTER
EJF1 ZH-7P
TV-POWER LEDOFF STB+3.3V GND STB+5V GND 10V
To FORMATTER
EJF2 ZH-11P
GND 1.8V 1.8V GND GND 3.3V 3.3V GND GND 6V 6V
To FORMATTER
A B C D E F G
1 2 3 4 5 6


VIDEO board 1 (PW1)
I202
NJM1320
96H/97H
COMPONENT.SW
I201
CXA2069Q
90H/91H
COMPOSITE.SW
I203
NJM2533M
MONITOR.SW
MONITOR.OUT
I601
TA1370FG
D8H/D9H
I602
SN74ACT14PWR
IR01
SI-3090KM
IR02
SI-3050KM
PYM
PYS
PVJ1
PVJ2
PTV2
Main
Sub
COMPONENT DET.
COMPONENT SYNC. SEP.
SCART.OUT
AV4
AV3 M-OUT
AV2
AV1
5mm Jamper wire
K001
K002
K003
K004
A
B
C
D
E
F
G
1
2
3
4
5
6


3D COMB FILTER
3D Y LPF
3D C LPF
3L Y LPF
3L C LPF
3L COMB FILTER
MAIN VCD
SUB VCD
TOF
PTV1
I302
UPD64084
I301
TC90A69F
3LYC(MAIN) B2H
I303
NJM2533M
I304
PST9227NR
I305
TK11133CS
I306
TK11125CS
I307
NJM2533M
I501
TB1274AF
8EH/BFH
I502
TB1274AF
8AH/BBH
I303 NJM2533M
COMB.SW
L
H
MCV
SCV
A+9V
A+5V
A+6V
FE+30V
3D+3.3V
GND
SCL0
SDA0
SCL1
SDA1
M.S-C
MCV/Y
TOF.SW
MHD-15kHz
MVD-15kHz
COMB.SW
EXT.Y-15kHz
FAST.BLK
S.S-Y
S.S-C
SCV
SHD-15kHz
SVD-15kHz
SCCD.BLK
SCCD.R
SCCD.G
SCCD.B
RCA.R
RCA.G
RCA.B
SY-15kHz
SCB-15kHz
SCR-15kHz
MY-15kHz
MCB-15kHz
MCR-15kHz
TP11
TP12
TP13
TP14
GND11
GND12
GND13
GND14
GND15
GND16
GND17
GND19
GND20
GND21
GND22
GND23
GND24
GND25
A
B
C
D
E
F
G
1
2
3
4
5
6

VIDEO board 2 (PW1)


VIDEO board 2 (PW1)
3D COMB FILTER
3D Y LPF
3D C LPF
3L Y LPF
3L C LPF
3L COMB FILTER
I302
UPD64084
B8H/B9H
I306
TK11125CS
I305
TK11133CS
I304
PST9227NR
MEMORY
I001
CAT24WC04JI
RESET
I002
PST3642NR
PTV1
I301
TC90A69F
3LYC(MAIN)
B2H
I307
NJM2533M
I303
NJM2533M
I303 NJM2533M
COMB.SW
L
H
MCV
SCV
I501
TB1274AF
8EH/BFH
MAIN VCD
I502
TB1274AF
8AH/8BH
SUB VCD
TOF
M.S-C
MCV/Y
TOF.SW
MHD-15kHz
MVD-15kHz
COMB.SW
FAST.BLK
EXT.Y-15kHz
S.S-Y
S.S-C
SCV
SHD-15kHz
SVD-15kHz
A+9V
A+5V
A+6V
FE+30V
SCL0
SDA0
SCL1
SDA1
SCCD-BLK
SCCD-R
SCCD-G
SCCD-B
RCA-R
RCA-G
RCA-B
SY-15kHz
SCB-15kHz
SCR-15kHz
MY-15kHz
MCB-15kHz
MCR-15kHz
[3LYCS-YO]
[3LYCS-CO]
[3DYCS-YO]
[3DYCS-CO]
TP11
TP12
TP13
TP14
A
B
C
D
E
F
G
1
2
3
4
5
6


PTV1
3D+3.3V
GND
A+9V
A+6V
FE+30V
I102
SI-3050KM
FE
U101
MPX
A2/NICAM/
US/JPN/KOREA
IN01
MSP3455G
80H/81H
XN01
FL-4R5H120SN-TCV2
I101
NJM2534M
D/K
IT01
SAA5264
60H/61H
IT02
CAT24WC04JI
TELETEXT
QT07(Base)
L Other
H Text Split
PTV2
50P
AGC. ADJ
ASIA---ENG39616G
(US---VO-A31FTV)
A
B
C
D
E
F
G
1
2
3
4
5
6

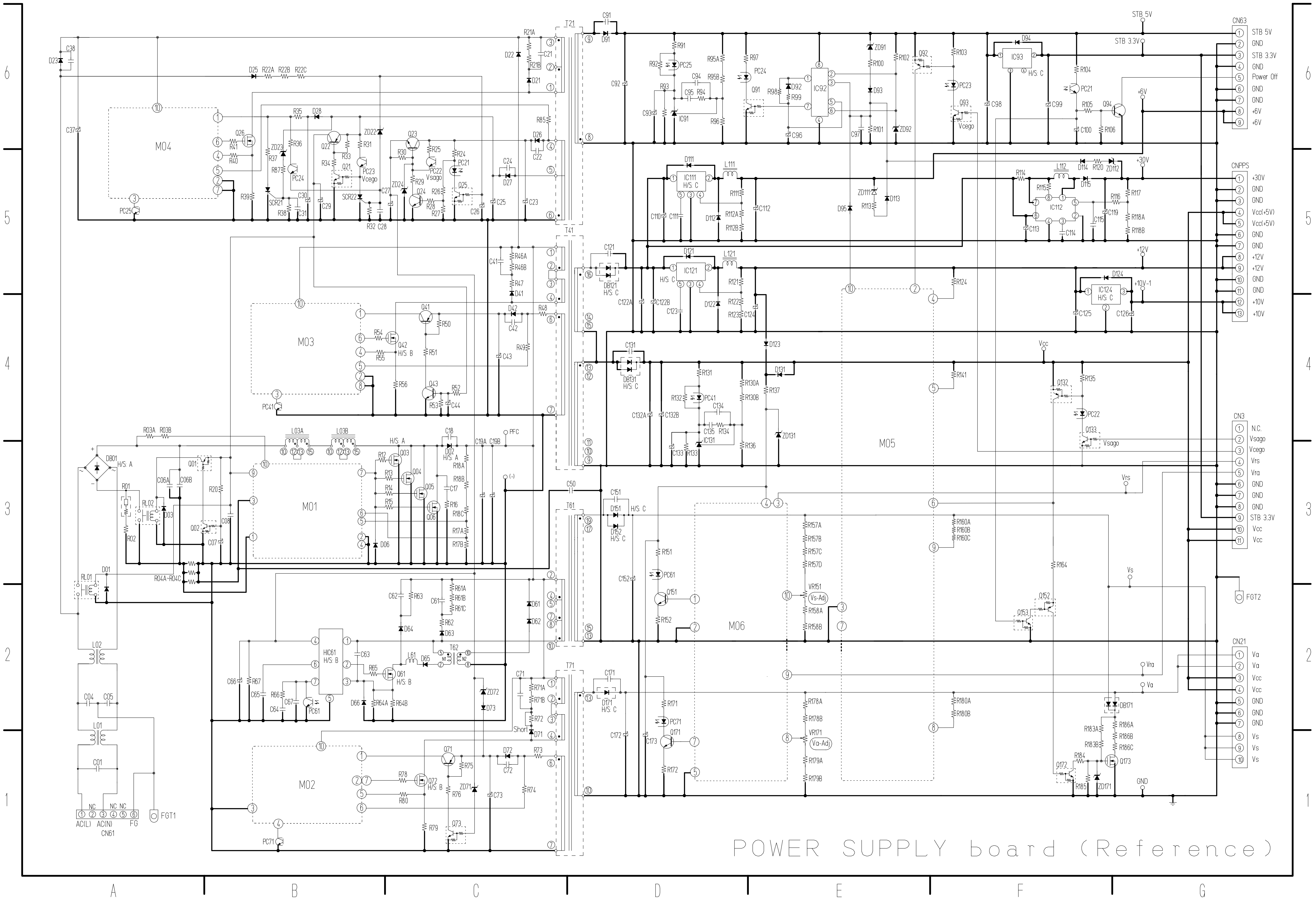
TUNER board (PW1)

I101 NJM2534M

| TV.SEL1 | TV.SEL2 | (7)OUT |
|---|---|---|
| L | L | B/G.I |
| H | L | M |
| L/H | H | D/K |

IC03 NJM2533M

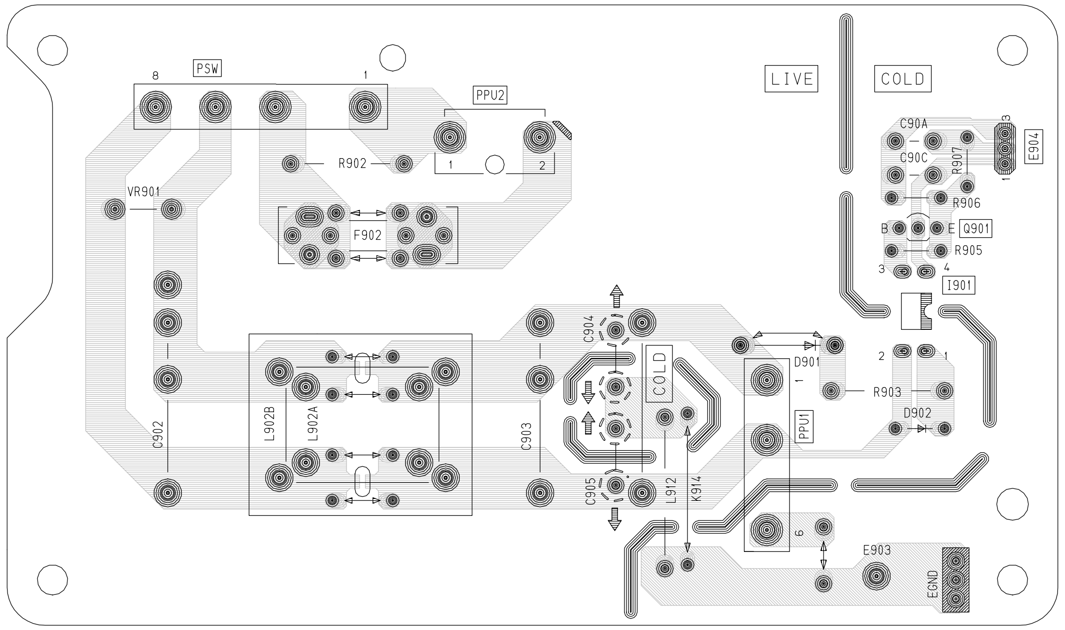
| SCCD.SW | (7)OUT |
|---|---|
| L | SCV |
| H | SY |


CN63
STB 5V
GND
STB 3.3V
GND
Power Off
GND
GND
+6V
+6V
CNPPS
+30V
GND
GND
Vcc(+5V)
Vcc(+5V)
GND
GND
+12V
+12V
GND
GND
+10V
+10V
CN3
N.C.
Vsago
Vcego
Vrs
Vra
GND
GND
GND
STB 3.3V
Vcc
Vcc
CN21
Va
Va
Vcc
Vcc
GND
GND
GND
Vs
Vs
Vs
FGT2
FGT1
CN61
AC(L)
AC(N)
FG
NC
M01
M02
M03
M04
M05
M06
T21
T41
T61
T71
T62
IC91
IC92
IC93
IC111
IC112
IC121
IC124
IC131
HIC61
DB01
RL01
RL02
L01
L02
L03A
L03B
VR151
VR171
Vs-Adj
Va-Adj
STB 5V
STB 3.3V
+6V
+30V
+12V
+10V-1
Vcc
Vrs
Vs
Vra
Va
PFC
(-)
GND
H/S A
H/S B
H/S C
Short
Vsago
Vcego
1
2
3
4
5
6
A
B
C
D
E
F
G

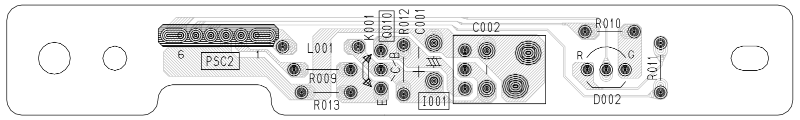
POWER SUPPLY board (Reference)

# *9.Printed wiring board diagram*

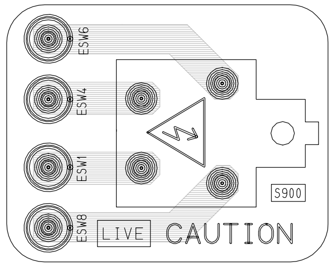
## FILTER board


PSW
8
1
PPU2
1
2
R902
VR901
F902
LIVE
COLD
C90A
C90C
R907
E904
3
1
R906
B
E
Q901
R905
3
4
I901
C902
L902B
L902A
C903
C904
COLD
C905
L912
K914
D901
1
R903
D902
2
1
PPU1
6
E903
EGND

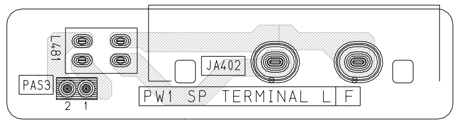
## LED/RECEIVER board


6
PSC2
1
L001
R009
R013
D001
Q010
R012
C001
I001
C002
R010
R
G
R011
D002

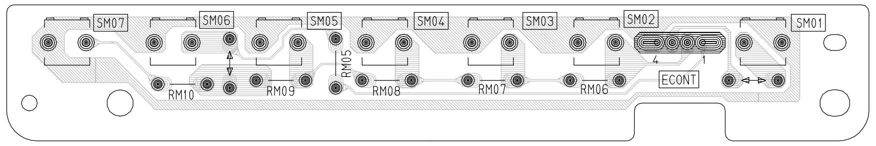
## SW board


ESW6
ESW4
ESW1
ESW8
S900
LIVE
CAUTION

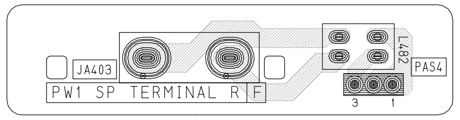
## SP TERMINAL L board


L481
PAS3
2
1
JA402
PW1 SP TERMINAL L F

## TACT SW board

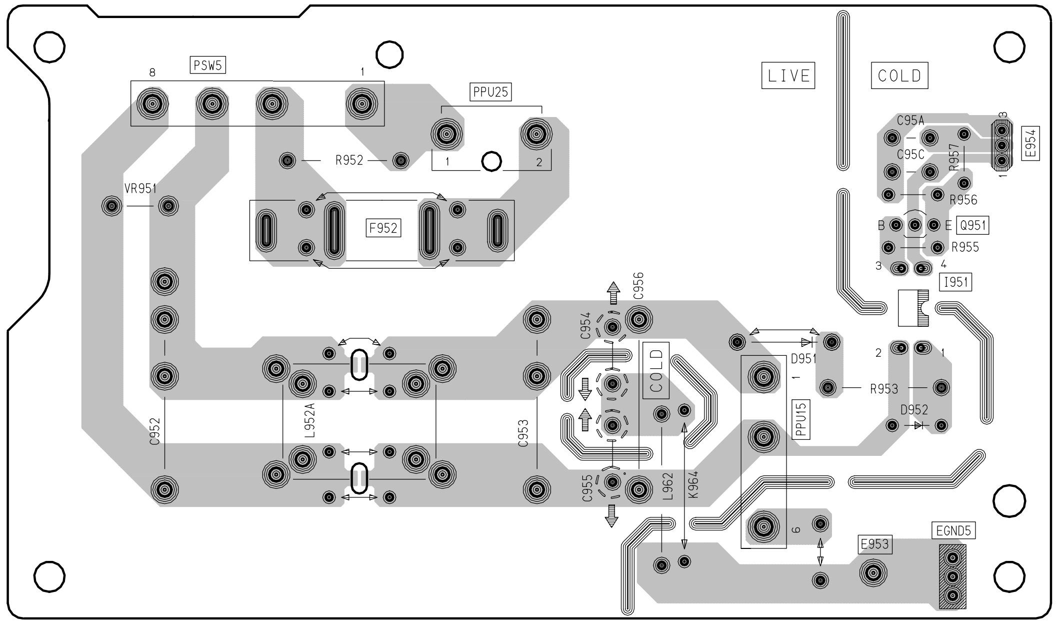

SM07
SM06
SM05
SM04
SM03
SM02
SM01
RM10
RM09
RM05
RM08
RM07
RM06
ECONT
4
1

## SP TERMINAL R board

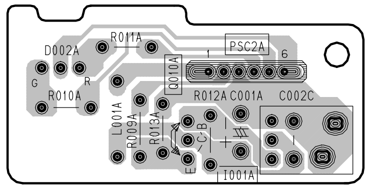

JA403
PW1 SP TERMINAL R F
L482
PAS4
3
1

## *Printed wiring board diagram*

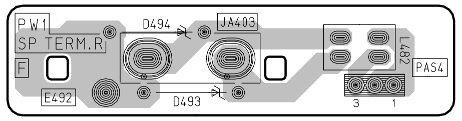
### FILTER board


PSW5
8
1
PPU25
R952
VR951
F952
LIVE
COLD
C95A
C95C
R957
E954
R956
Q951
R955
I951
C956
C954
D951
R953
D952
PPU15
L952A
C952
C953
C955
L962
K964
E953
EGND5

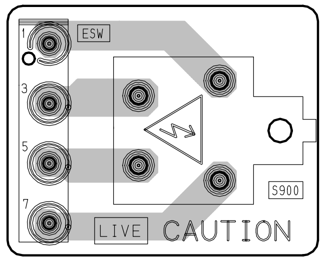
### LED/RECEIVER board


D002A
R011A
Q010A
PSC2A
R010A
R012A
C001A
C002C
L001A
R009A
R013A
I001A

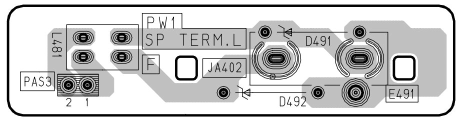
### SPEAKER TERMINAL (R) board


PW1
SP TERM.R
F
D494
JA403
L871
PAS4
E492
D493
3
1

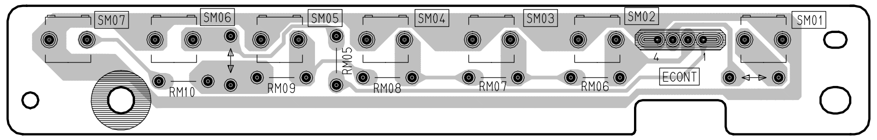
### SW board


ESW
1
3
5
7
S900
LIVE
CAUTION

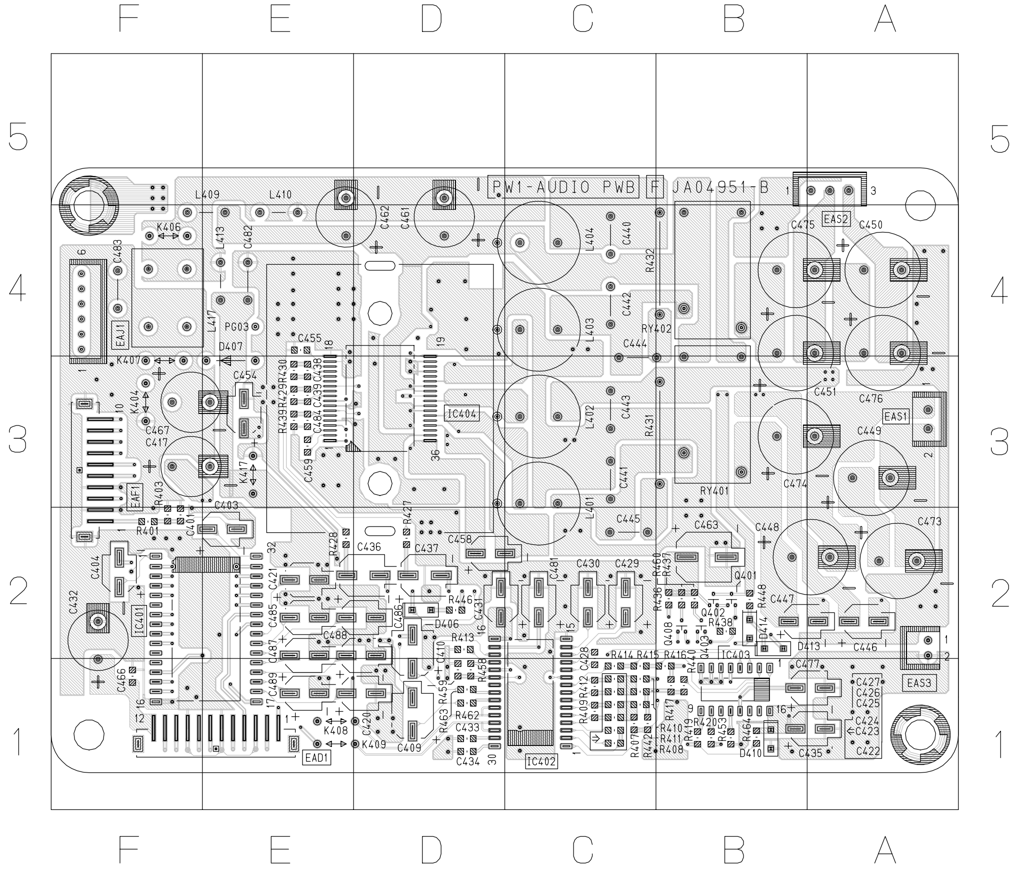
### SPEAKER TERMINAL (L) board


L481
PW1
SP TERM.L
F
PAS3
2
1
JA402
D491
D492
E491

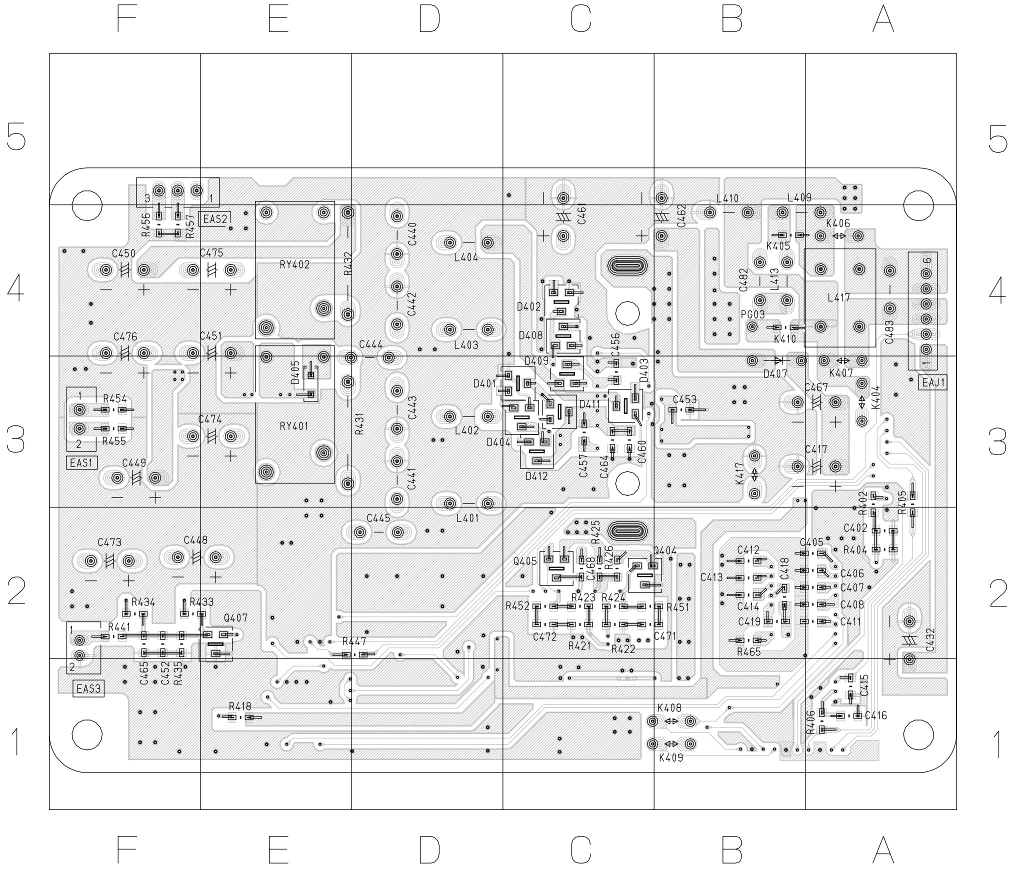
### TACT SW board


SM07
SM06
SM05
SM04
SM03
SM02
SM01
RM10
RM09
RM05
RM08
RM07
RM06
ECONT

## AUDIO board ( side-A )



## AUDIO board ( side-B )



### Mainly chip parts reference table

| Cir.No. | Position |
|---|---|
| D406 | D2 |
| D410 | B1 |
| D413 | B2 |
| D414 | B2 |
| EAD1 | E1 |
| EAF1 | F3 |
| IC401 | E2 |
| IC402 | C1 |

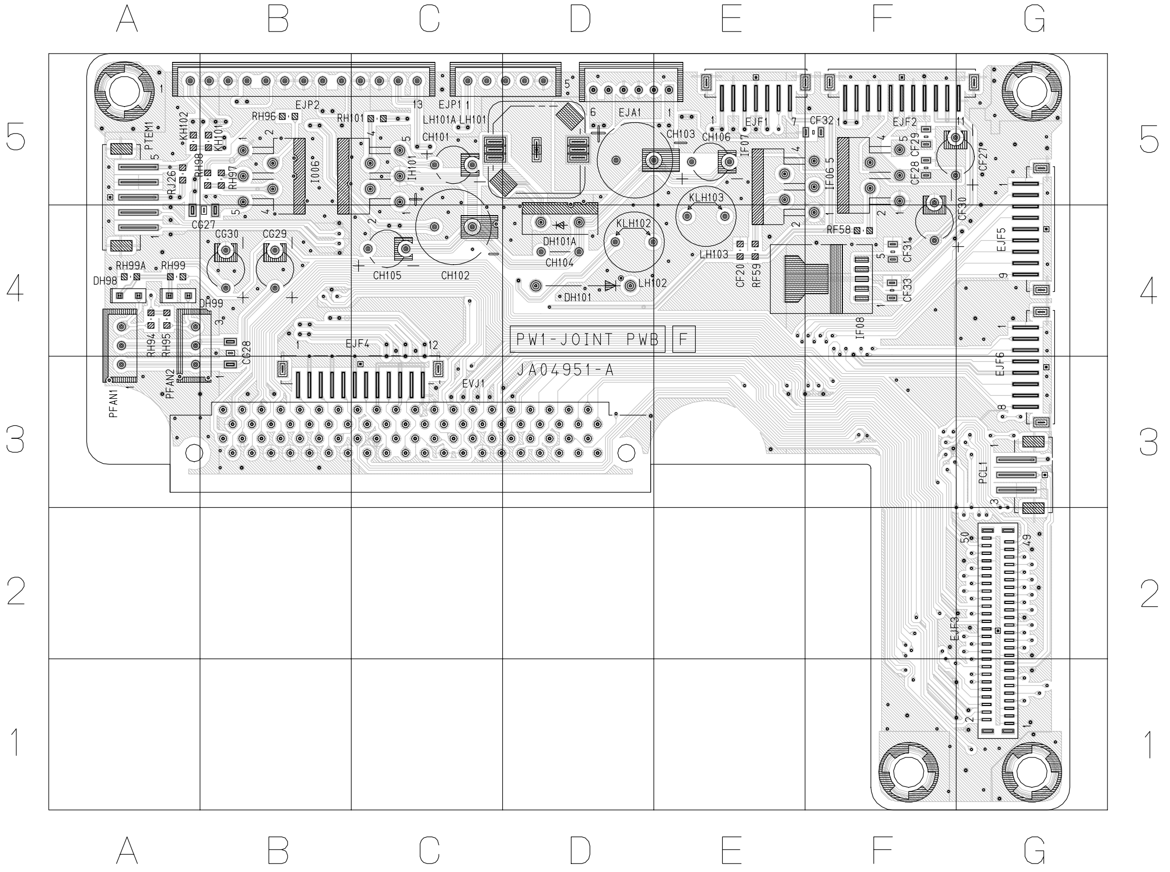
| Cir.No. | Position |
|---|---|
| IC403 | B1 |
| IC404 | D3 |
| Q401 | B2 |
| Q402 | B2 |
| Q403 | B2 |
| Q408 | B2 |

### Mainly chip parts reference table

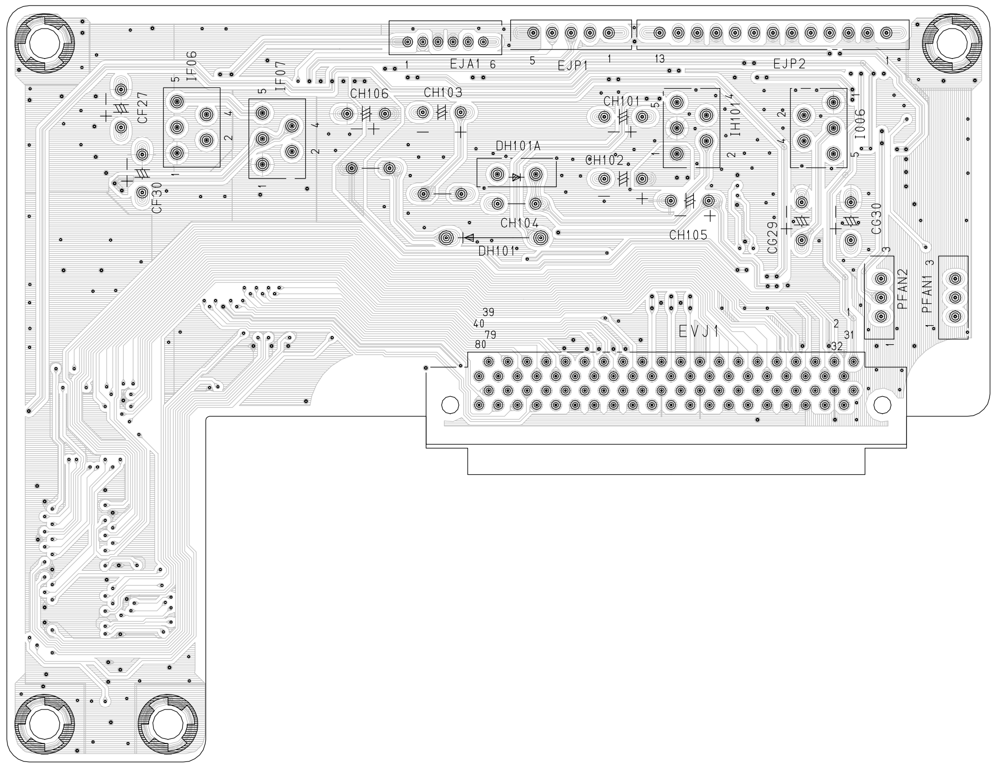
| Cir.No. | Position |
|---|---|
| D401 | D3 |
| D402 | D4 |
| D403 | D3 |
| D404 | D3 |
| D405 | B3 |
| D408 | D4 |
| D409 | D3 |
| D411 | D3 |

| Cir.No. | Position |
|---|---|
| D412 | D3 |
| K405 | E4 |
| K410 | E4 |
| Q404 | D2 |
| Q405 | D2 |
| Q407 | B2 |

## JOINT board ( side-A )


A
B
C
D
E
F
G
5
4
3
2
1
PW1-JOINT PWB
F
JA04951-A
EJP2
EJP1
EJA1
EJF1
EJF2
EJF3
EJF4
EJF5
EJF6
EVJ1
PCL1
PFAN1
PFAN2
PTEM1
IF08

## JOINT board ( side-B )

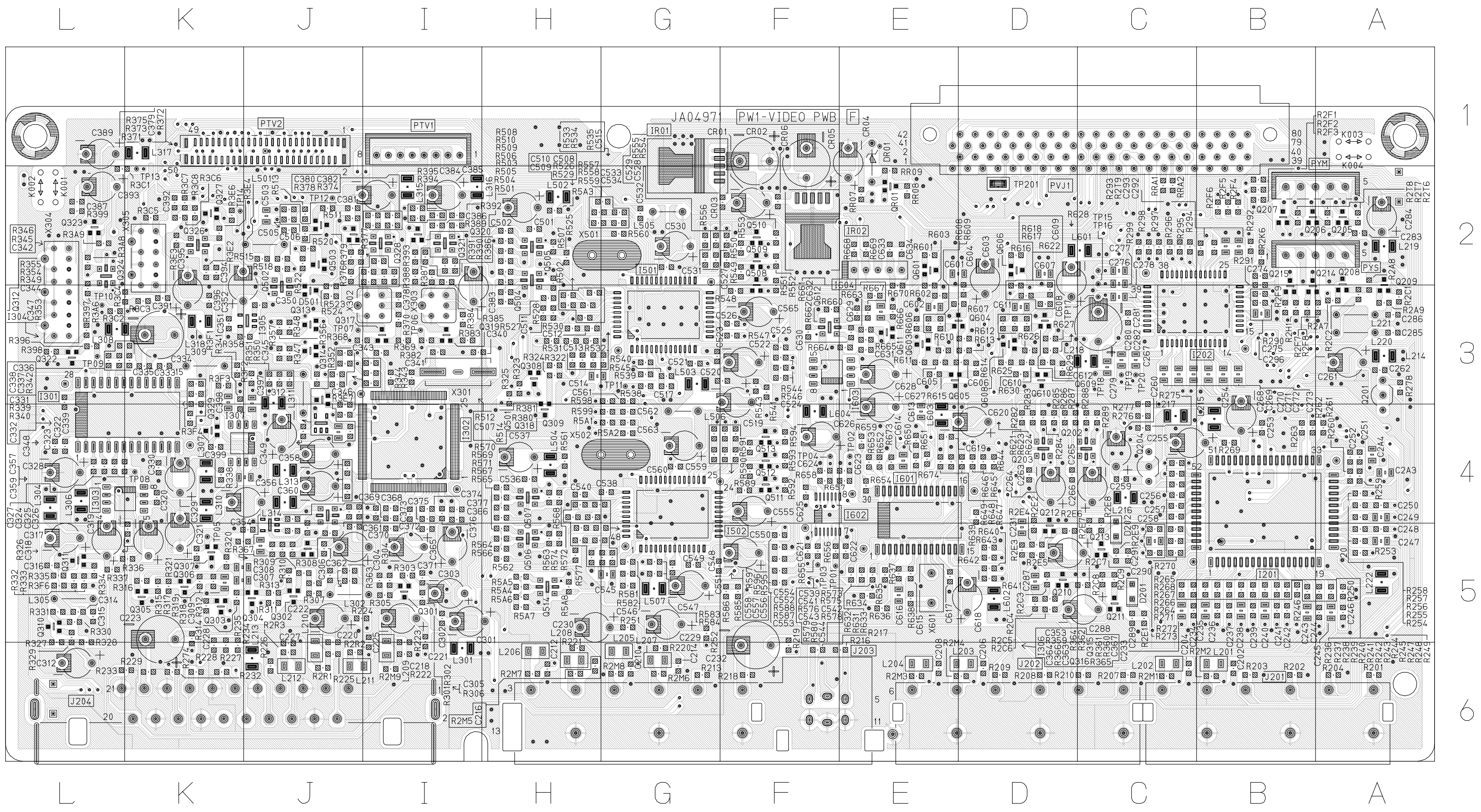

EJA1
EJP1
EJP2
EVJ1
PFAN1
PFAN2
IF06
IF07
IH101
I006
CH101
CH102
CH103
CH104
CH105
CH106
DH101
DH101A
CF27
CF30
CG29
CG30

## Mainly chip parts reference table

| Cir.No. | Position |
|---|---|
| DH98 | A4 |
| DH99 | A4 |
| EJF1 | E5 |
| EJF2 | F5 |
| EJF3 | G2 |
| EJF4 | C3 |
| EJF5 | G4 |
| EJF6 | G3 |

| Cir.No. | Position |
|---|---|
| IF08 | F4 |
| KH101 | B5 |
| KH102 | A5 |
| LH101 | D5 |
| LH101A | D5 |
| PCL1 | G3 |
| PTEM1 | A5 |

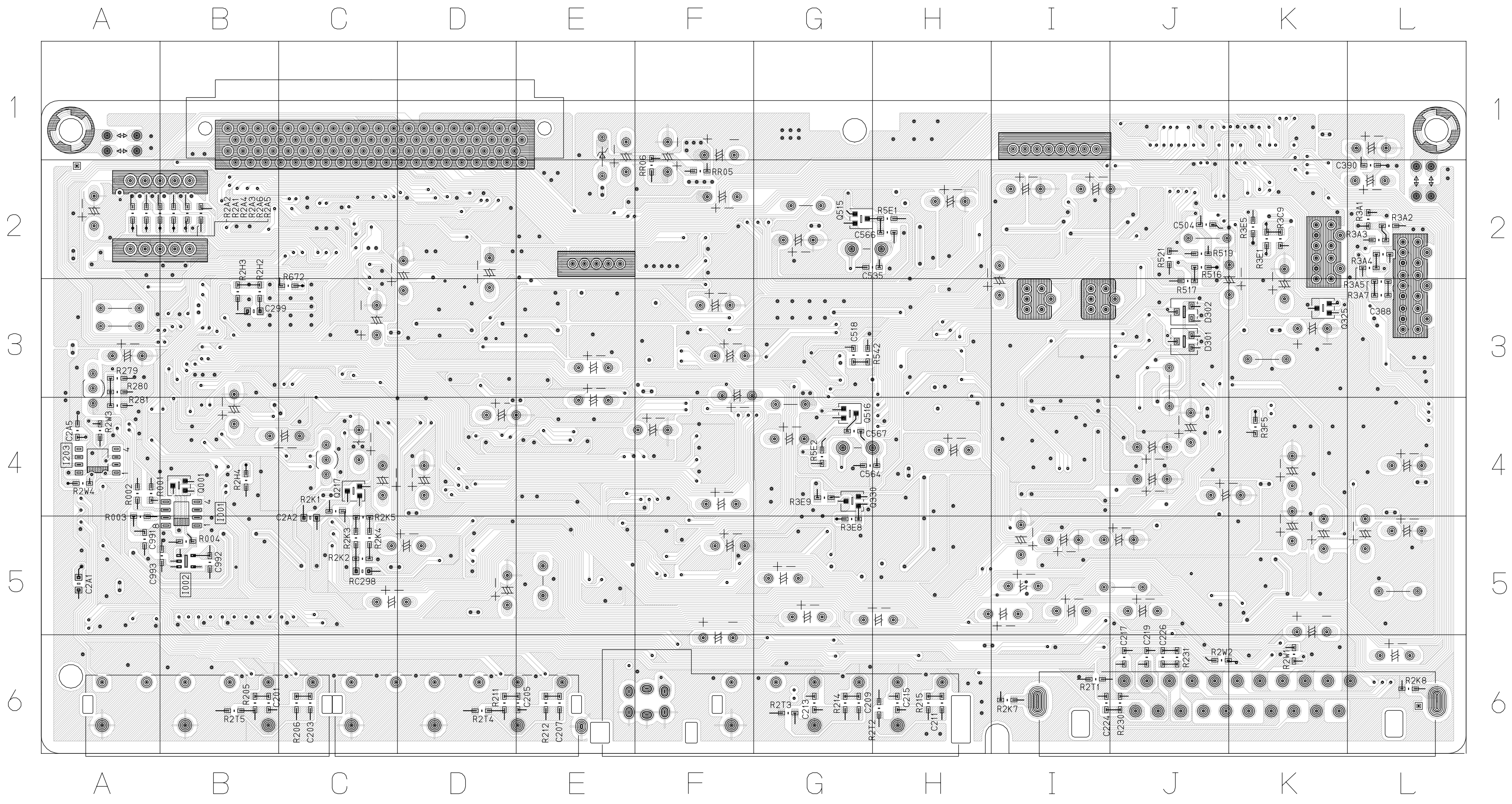
## VIDEO board ( side-A )



## Mainly chip parts reference table

| Cir.No. | Position |
|---|---|
| D201 | C5 |
| D202 | C5 |
| D501 | J3 |
| I201 | B4 |
| I202 | C3 |
| I301 | K4 |
| I302 | I4 |
| I303 | K4 |
| I304 | J4 |
| I305 | J3 |
| I306 | J5 |
| I307 | K4 |
| I501 | G3 |
| I502 | G4 |
| I601 | E4 |
| I602 | F4 |
| I603 | F3 |
| IR01 | G2 |
| IR02 | F2 |
| L201 | B6 |
| L202 | C6 |
| L203 | D6 |
| L204 | E6 |
| L205 | G6 |
| L206 | H6 |
| L207 | G6 |
| L208 | H6 |
| L209 | I6 |
| L210 | J6 |
| L211 | J6 |
| L212 | J6 |
| L213 | J6 |
| L214 | A3 |
| L215 | B4 |
| L216 | C4 |
| L217 | C4 |
| L218 | C3 |
| L219 | A2 |
| L222 | A5 |
| L301 | I6 |
| L304 | L4 |
| L306 | L4 |
| L307 | K4 |
| L308 | L3 |
| L310 | K4 |
| L312 | J3 |
| L313 | J4 |
| L314 | J4 |
| L315 | I2 |
| L316 | I2 |
| L317 | K1 |
| L318 | K3 |
| L502 | H2 |
| L503 | G3 |
| L504 | H4 |
| L507 | G5 |
| L601 | C2 |
| L602 | D5 |
| L603 | E4 |
| L604 | F4 |
| PTV2 | J1 |
| Q202 | C4 |
| Q203 | D4 |
| Q205 | A2 |
| Q206 | B2 |
| Q207 | B2 |
| Q208 | A2 |
| Q209 | A3 |
| Q210 | D5 |
| Q211 | C5 |
| Q212 | D5 |
| Q213 | C5 |
| Q214 | B3 |
| Q215 | B3 |
| Q301 | I5 |
| Q302 | J5 |

## VIDEO board ( side-B )

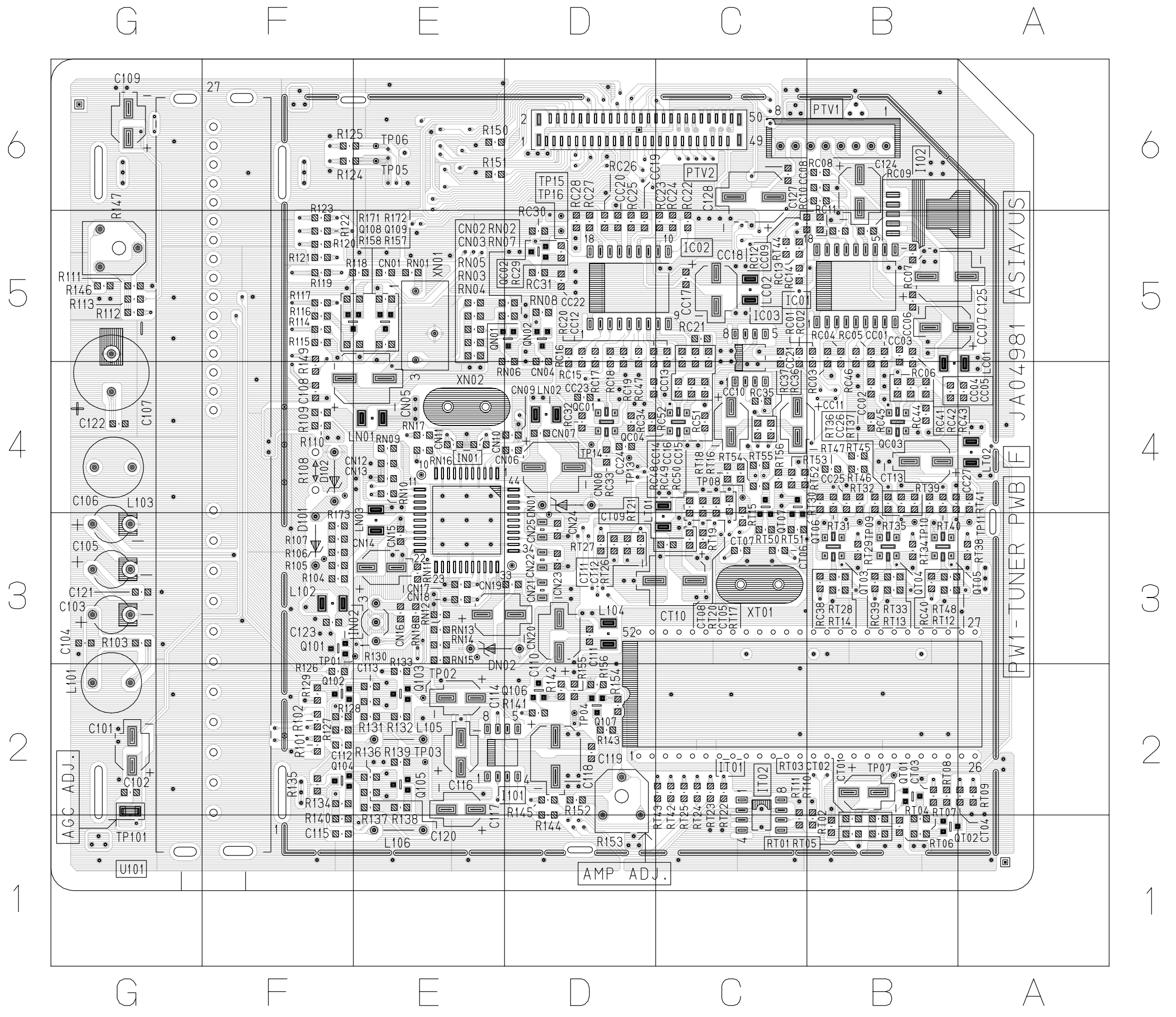

A
B
C
D
E
F
G
H
I
J
K
L
1
2
3
4
5
6

## Mainly chip parts reference table

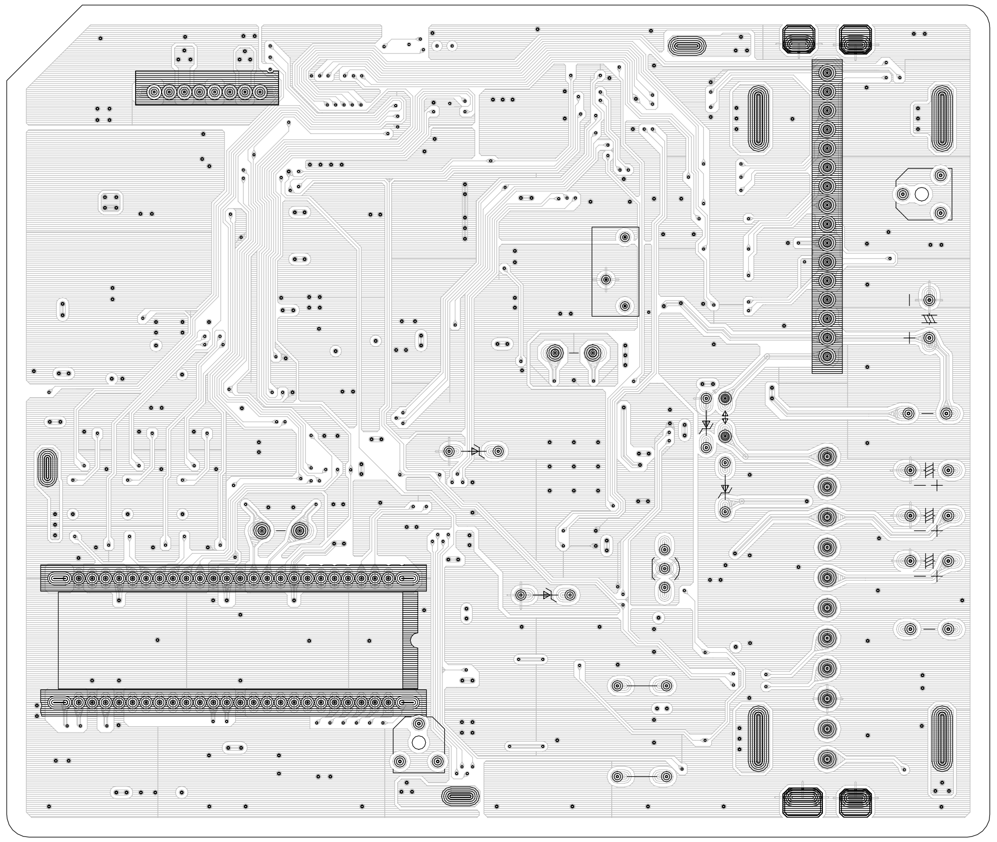
| Cir.No. | Position |
|---|---|
| D301 | J3 |
| D302 | J3 |
| I001 | B4 |
| I002 | B5 |
| I203 | A4 |
| Q001 | B4 |

| Cir.No. | Position |
|---|---|
| Q217 | C4 |
| Q325 | K3 |
| Q330 | G4 |
| Q515 | G2 |
| Q516 | G4 |

## TUNER board ( Side-A )


G
F
E
D
C
B
A
6
5
4
3
2
1
AGC ADJ.
AMP ADJ.
ASIA/US
JA04981
F
PWI-TUNER PWB
PTV1
PTV2
XT01
IC01
IC02
IC03
TP101
U101

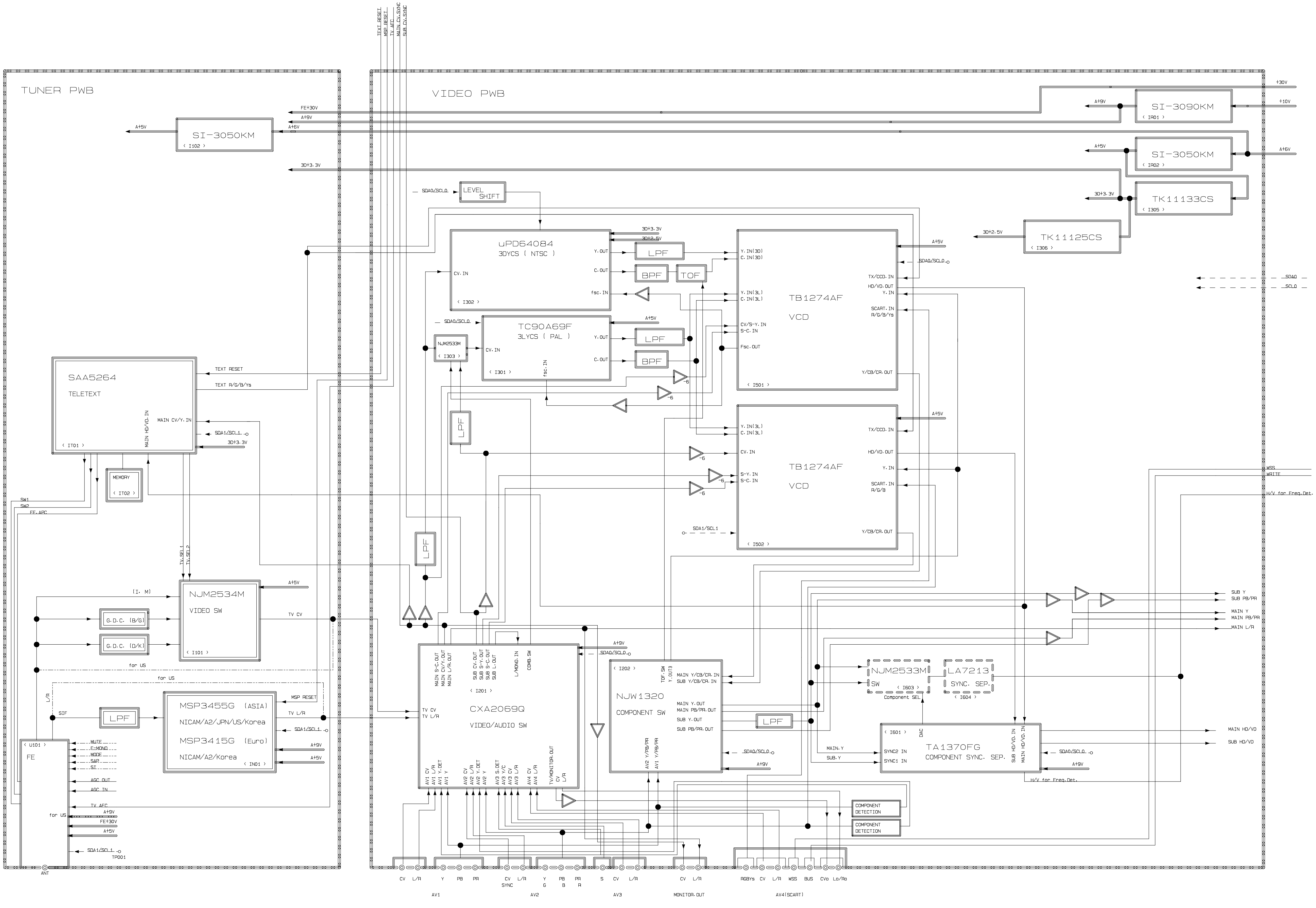
## TUNER board ( Side-B )



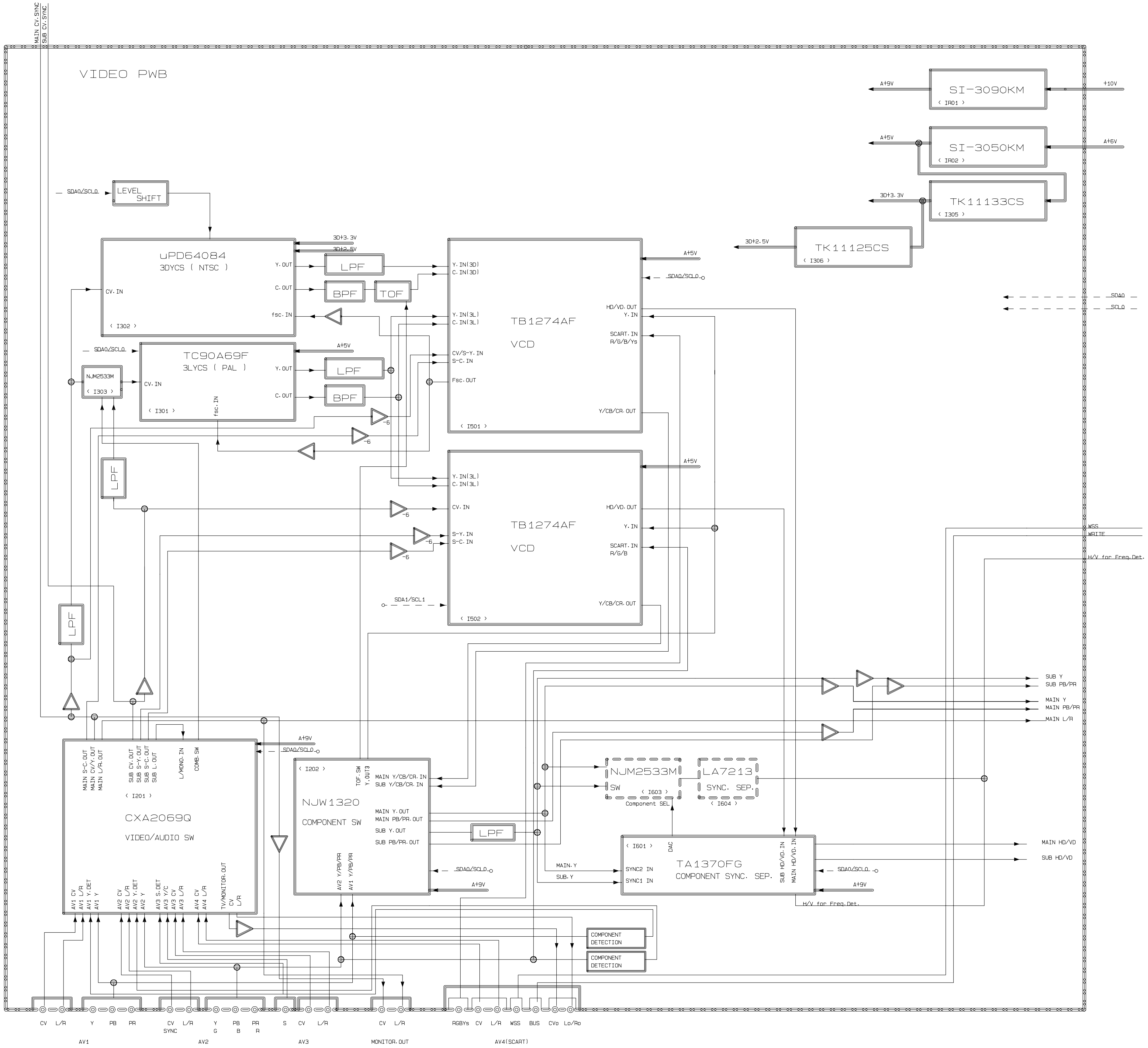
## Mainly chip parts reference table

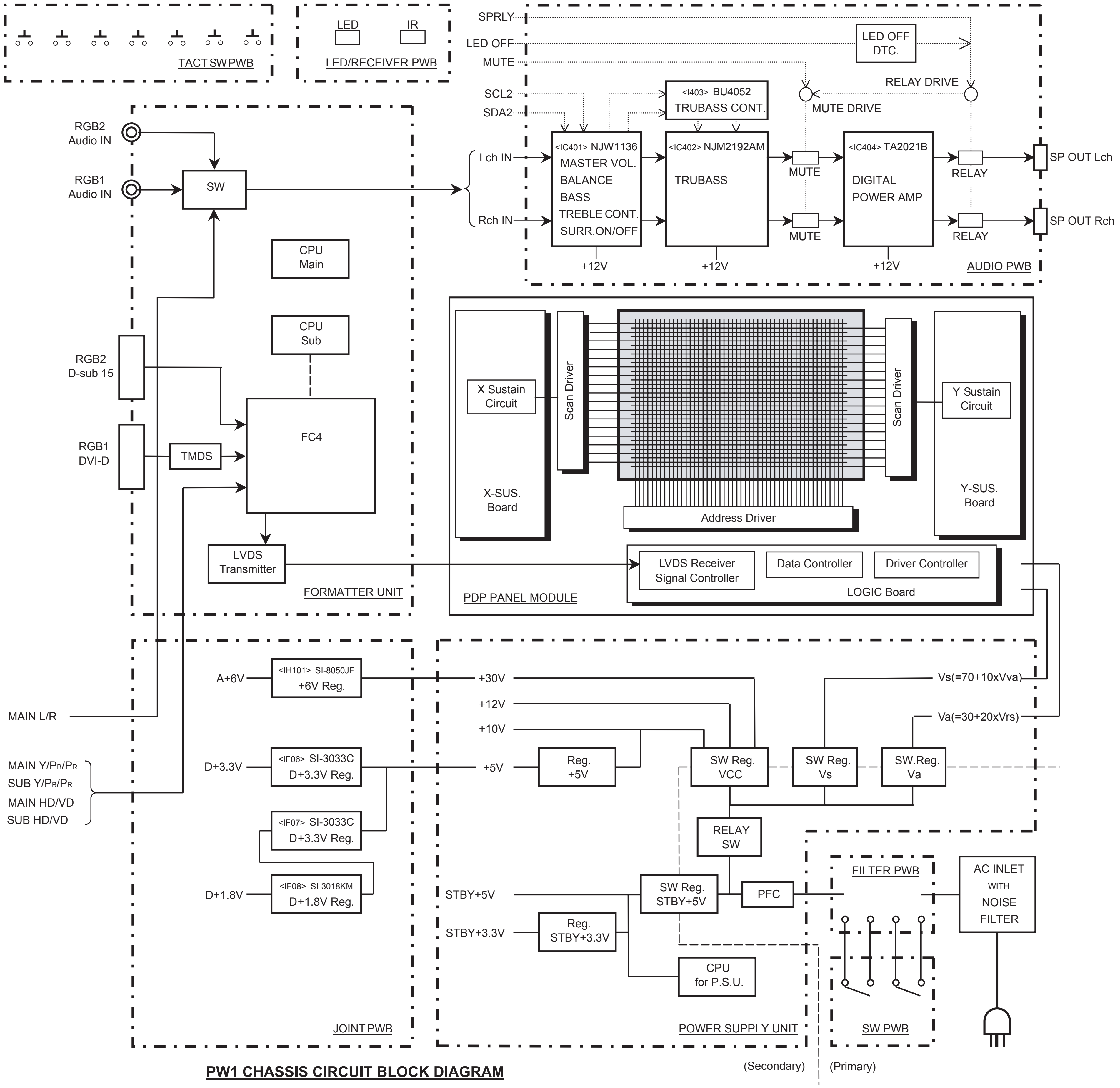
| Cir.No. | Position |
|---|---|
| I101 | E2 |
| I102 | B5 |
| IC01 | B5 |
| IC02 | D5 |
| IC03 | C4 |
| IN01 | E3 |
| IT02 | C1 |
| L102 | F3 |
| L104 | D3 |
| LC01 | B4 |
| LC02 | C5 |
| LN01 | E4 |
| LN02 | D4 |
| LN03 | E3 |
| LT01 | C3 |
| LT02 | A4 |
| PTV2 | D6 |
| Q101 | F3 |
| Q102 | F2 |
| Q103 | E2 |
| Q104 | F2 |
| Q105 | E2 |
| Q106 | D2 |
| Q107 | D2 |
| Q108 | F5 |
| Q109 | E5 |
| QC01 | D4 |
| QC02 | D5 |
| QC03 | B4 |
| QC04 | C4 |
| QN01 | D5 |
| QN02 | D5 |
| QT01 | B2 |
| QT02 | B1 |
| QT03 | B3 |
| QT04 | B3 |
| QT05 | B3 |
| QT06 | C3 |

## 11. Block diagram

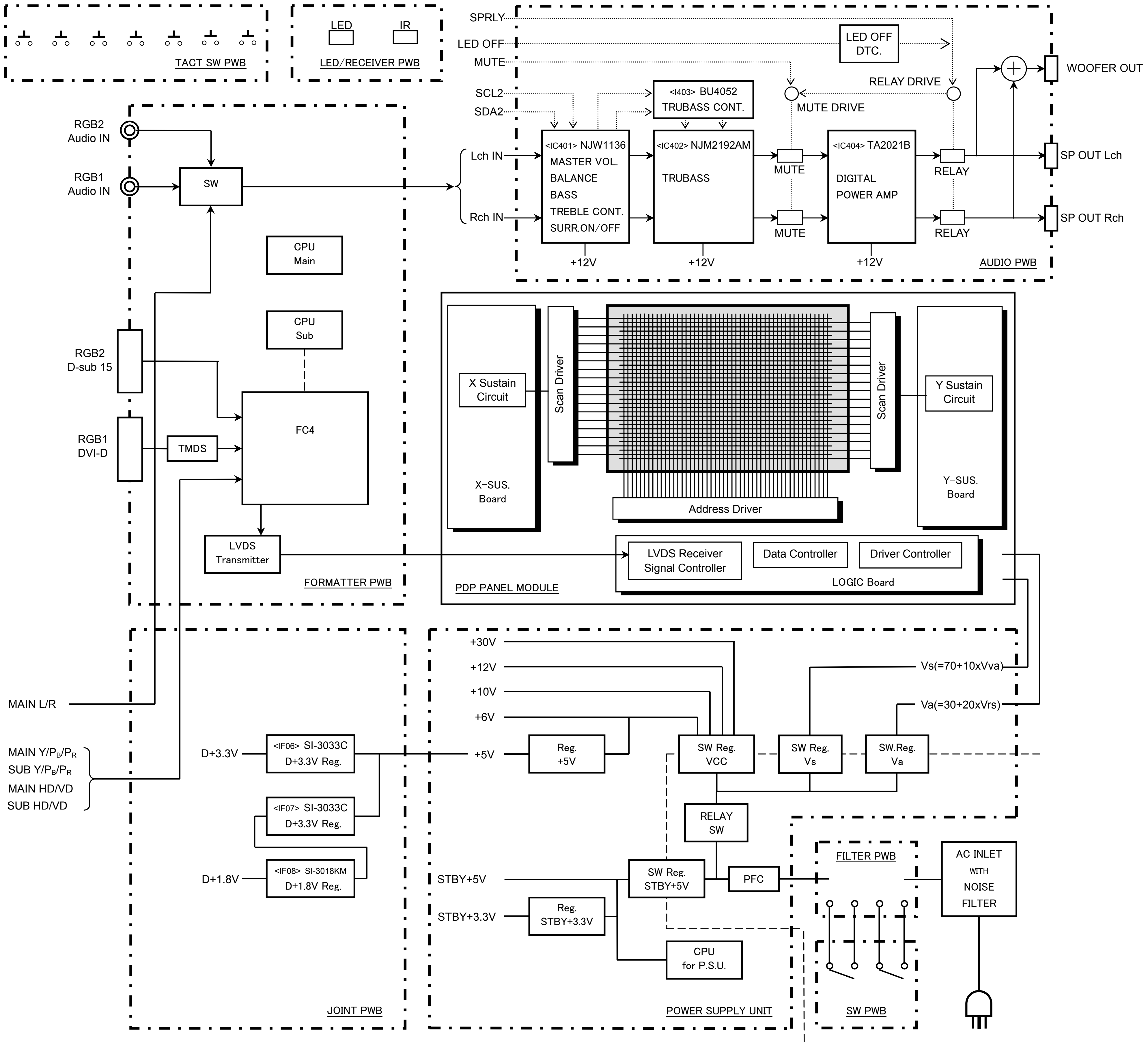

TEXT RESET
MSP RESET
TV AFC
MAIN CV.SYNC
SUB CV.SYNC
TUNER PWB
VIDEO PWB
SI-3050KM
< I102 >
A+5V
FE+30V
A+9V
A+6V
3D+3.3V
SDA0/SCL0
LEVEL SHIFT
uPD64084
3DYCS ( NTSC )
CV.IN
Y.OUT
C.OUT
fsc.IN
< I302 >
LPF
BPF
TOF
TC90A69F
3LYCS ( PAL )
< I301 >
NJM2533M
< I303 >
fsc.IN
-6
SAA5264
TELETEXT
TEXT RESET
TEXT R/G/B/Ys
MAIN HD/VD.IN
MAIN CV/Y.IN
SDA1/SCL1
< IT01 >
MEMORY
< IT02 >
SW1
SW2
FE.APC
TV.SEL1
TV.SEL2
NJM2534M
VIDEO SW
< I101 >
(I, M)
G.D.C. (B/G)
G.D.C. (D/K)
TV CV
for US
L/R
SIF
MSP3455G (ASIA)
NICAM/A2/JPN/US/Korea
MSP3415G (Euro)
NICAM/A2/Korea
< IN01 >
MSP RESET
TV L/R
< U101 >
FE
MUTE
F-MONO
MODE
SAP
SI
AGC OUT
AGC IN
TV AFC
FE+30V
SDA1/SCL1
TP001
ANT
+30V
SI-3090KM
< IR01 >
+10V
< IR02 >
TK11133CS
< I305 >
TK11125CS
< I306 >
3D+2.5V
TB1274AF
VCD
Y.IN(3D)
C.IN(3D)
Y.IN(3L)
C.IN(3L)
CV/S-Y.IN
S-C.IN
Fsc.OUT
TX/CCD.IN
HD/VD.OUT
Y.IN
SCART.IN R/G/B/Ys
Y/CB/CR.OUT
< I501 >
CV.IN
S-Y.IN
SCART.IN R/G/B
< I502 >
SDA0
SCL0
WSS
WRITE
H/V for Freq.Det.
CXA2069Q
VIDEO/AUDIO SW
< I201 >
MAIN S-C.OUT
MAIN CV/Y.OUT
MAIN L/R.OUT
SUB CV.OUT
SUB S-Y.OUT
SUB S-C.OUT
SUB L.OUT
L/MONO.IN
COMB.SW
TV CV
TV L/R
AV1 CV
AV1 L/R
AV1 Y.DET
AV1 Y
AV2 CV
AV2 L/R
AV2 Y.DET
AV2 Y
AV3 S.DET
AV3 Y/C
AV3 CV
AV3 L/R
AV4 CV
AV4 L/R
TV/MONITOR.OUT
CV
L/R
NJW1320
COMPONENT SW
< I202 >
TOF.SW
Y.OUT3
MAIN Y/CB/CR.IN
SUB Y/CB/CR.IN
MAIN Y.OUT
MAIN PB/PR.OUT
SUB Y.OUT
SUB PB/PR.OUT
AV2 Y/PB/PR
AV1 Y/PB/PR
NJM2533M
SW
< I603 >
Component SEL
LA7213
SYNC. SEP.
< I604 >
TA1370FG
COMPONENT SYNC. SEP.
< I601 >
DAC
SYNC2 IN
SYNC1 IN
MAIN.Y
SUB.Y
SUB HD/VD.IN
MAIN HD/VD.IN
SUB Y
SUB PB/PR
MAIN Y
MAIN PB/PR
MAIN L/R
MAIN HD/VD
SUB HD/VD
COMPONENT DETECTION
CV
L/R
Y
PB
PR
CV SYNC
Y G
PB B
PR R
S
RGBYs
WSS
BUS
CVo
Lo/Ro
AV1
AV2
AV3
MONITOR.OUT
AV4(SCART)

## Block diagram


MAIN CV.SYNC
SUB CV.SYNC
VIDEO PWB
SDA0/SCL0
LEVEL SHIFT
uPD64084
3DYCS ( NTSC )
CV.IN
Y.OUT
C.OUT
fsc.IN
< I302 >
3D+3.3V
3D+2.5V
LPF
BPF
TOF
TC90A69F
3LYCS ( PAL )
Y.OUT
C.OUT
CV.IN
fsc.IN
< I301 >
A+5V
NJM2533M
< I303 >
-6
TB1274AF
VCD
Y.IN(3D)
C.IN(3D)
Y.IN(3L)
C.IN(3L)
CV/S-Y.IN
S-C.IN
Fsc.OUT
HD/VD.OUT
Y.IN
SCART.IN
R/G/B/Ys
Y/CB/CR.OUT
< I501 >
TB1274AF
VCD
Y.IN(3L)
C.IN(3L)
CV.IN
S-Y.IN
S-C.IN
HD/VD.OUT
Y.IN
SCART.IN
R/G/B
Y/CB/CR.OUT
< I502 >
SDA1/SCL1
SI-3090KM
< IR01 >
A+9V
+10V
SI-3050KM
< IR02 >
A+5V
A+6V
TK11133CS
< I305 >
3D+3.3V
TK11125CS
< I306 >
3D+2.5V
SDA0
SCL0
WSS
WRITE
H/V for Freq.Det.
SUB Y
SUB PB/PR
MAIN Y
MAIN PB/PR
MAIN L/R
CXA2069Q
VIDEO/AUDIO SW
< I201 >
MAIN S-C.OUT
MAIN CV/Y.OUT
MAIN L/R.OUT
SUB CV.OUT
SUB S-Y.OUT
SUB S-C.OUT
SUB L.OUT
L/MONO.IN
COMB.SW
AV1 CV
AV1 L/R
AV1 Y.DET
AV1 Y
AV2 CV
AV2 L/R
AV2 Y.DET
AV2 Y
AV3 S.DET
AV3 Y/C
AV3 CV
AV3 L/R
AV4 CV
AV4 L/R
TV/MONITOR.OUT
CV
L/R
A+9V
NJW1320
COMPONENT SW
< I202 >
TOF.SW
Y.OUT3
MAIN Y/CB/CR.IN
SUB Y/CB/CR.IN
MAIN Y.OUT
MAIN PB/PR.OUT
SUB Y.OUT
SUB PB/PR.OUT
AV2 Y/PB/PR
AV1 Y/PB/PR
NJM2533M
SW
< I603 >
Component SEL
LA7213
SYNC. SEP.
< I604 >
TA1370FG
COMPONENT SYNC. SEP.
< I601 >
DAC
SYNC2 IN
SYNC1 IN
MAIN.Y
SUB.Y
SUB HD/VD.IN
MAIN HD/VD.IN
MAIN HD/VD
SUB HD/VD
COMPONENT DETECTION
COMPONENT DETECTION
CV
L/R
Y
PB
PR
AV1
CV SYNC
L/R
Y G
PB B
PR R
AV2
S
CV
L/R
AV3
CV
L/R
MONITOR.OUT
RGBYs
CV
L/R
WSS
BUS
CVo
Lo/Ro
AV4(SCART)

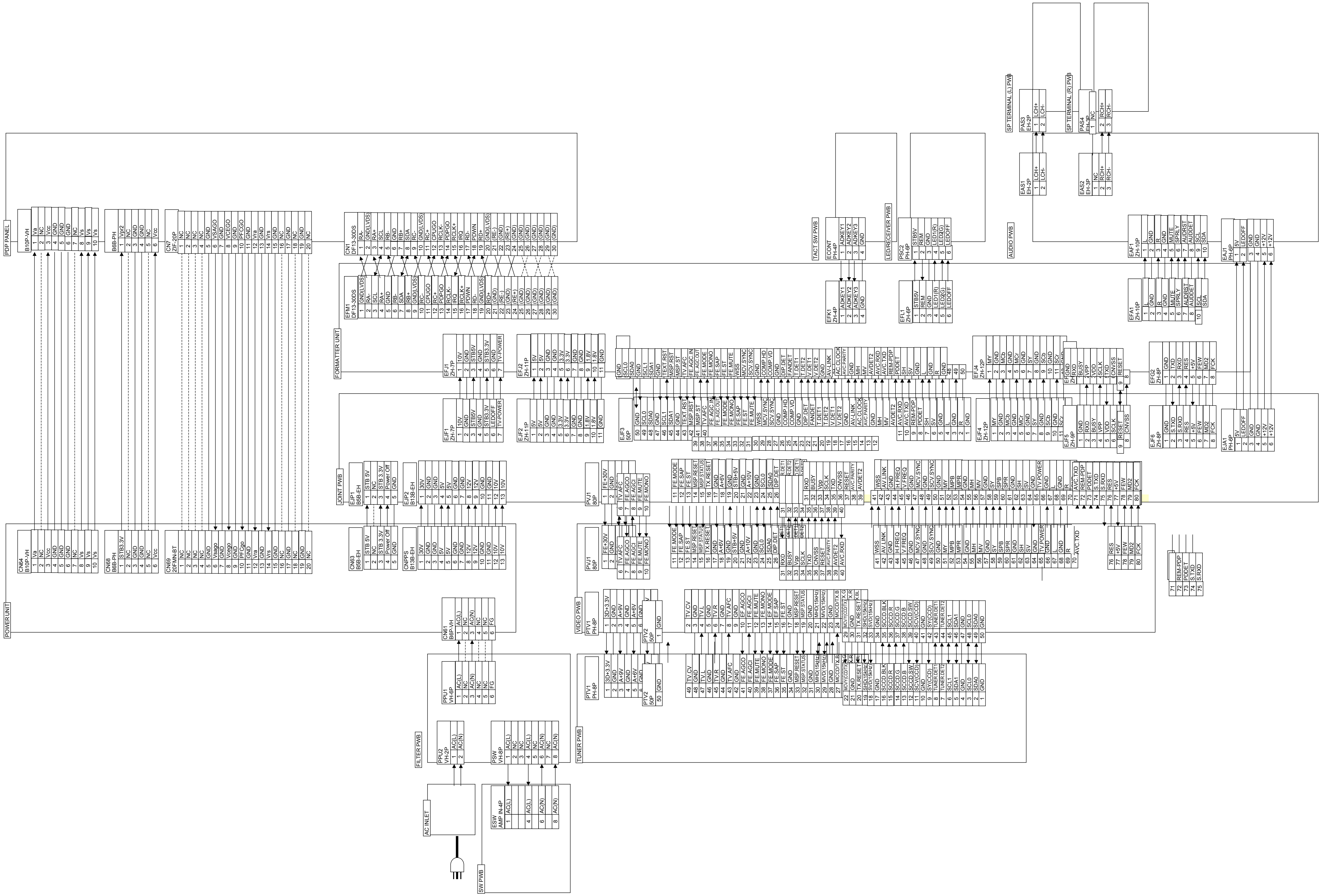

TACT SW PWB
LED
IR
LED/RECEIVER PWB
SPRLY
LED OFF
MUTE
LED OFF DTC.
RELAY DRIVE
MUTE DRIVE
SCL2
SDA2
<I403> BU4052
TRUBASS CONT.
<IC401> NJW1136
MASTER VOL.
BALANCE
BASS
TREBLE CONT.
SURR.ON/OFF
<IC402> NJM2192AM
TRUBASS
<IC404> TA2021B
DIGITAL
POWER AMP
MUTE
MUTE
RELAY
RELAY
Lch IN
Rch IN
SP OUT Lch
SP OUT Rch
+12V
+12V
+12V
AUDIO PWB
RGB2 Audio IN
RGB1 Audio IN
SW
CPU Main
CPU Sub
RGB2 D-sub 15
RGB1 DVI-D
TMDS
FC4
LVDS Transmitter
FORMATTER UNIT
X Sustain Circuit
X-SUS. Board
Scan Driver
Scan Driver
Y Sustain Circuit
Y-SUS. Board
Address Driver
LVDS Receiver Signal Controller
Data Controller
Driver Controller
LOGIC Board
PDP PANEL MODULE
A+6V
<IH101> SI-8050JF
+6V Reg.
MAIN L/R
D+3.3V
<IF06> SI-3033C
D+3.3V Reg.
MAIN Y/PB/PR
SUB Y/PB/PR
MAIN HD/VD
SUB HD/VD
<IF07> SI-3033C
D+3.3V Reg.
D+1.8V
<IF08> SI-3018KM
D+1.8V Reg.
JOINT PWB
+30V
+12V
+10V
+5V
Reg. +5V
SW Reg. VCC
SW Reg. Vs
SW.Reg. Va
Vs(=70+10xVva)
Va(=30+20xVrs)
RELAY SW
STBY+5V
SW Reg. STBY+5V
PFC
STBY+3.3V
Reg. STBY+3.3V
CPU for P.S.U.
POWER SUPPLY UNIT
FILTER PWB
AC INLET WITH NOISE FILTER
SW PWB
(Secondary)
(Primary)

**PW1 CHASSIS CIRCUIT BLOCK DIAGRAM**

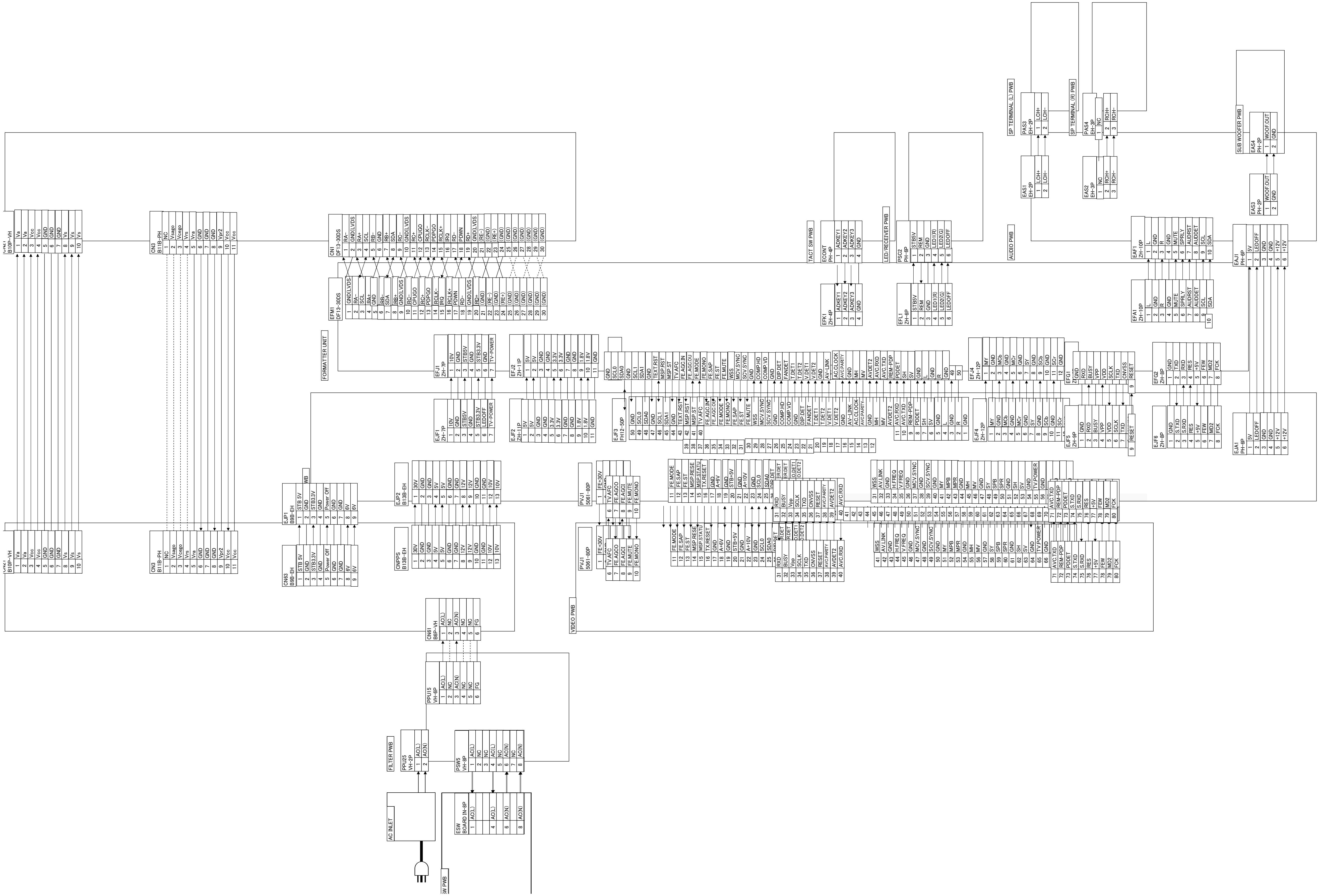

TACT SW PWB
LED
IR
LED/RECEIVER PWB
SPRLY
LED OFF
MUTE
SCL2
SDA2
LED OFF DTC.
<I403> BU4052
TRUBASS CONT.
RELAY DRIVE
MUTE DRIVE
WOOFER OUT
Lch IN
Rch IN
<IC401> NJW1136
MASTER VOL.
BALANCE
BASS
TREBLE CONT.
SURR.ON/OFF
<IC402> NJM2192AM
TRUBASS
MUTE
MUTE
<IC404> TA2021B
DIGITAL
POWER AMP
RELAY
RELAY
SP OUT Lch
SP OUT Rch
+12V
+12V
+12V
AUDIO PWB
RGB2
Audio IN
RGB1
Audio IN
SW
CPU
Main
CPU
Sub
RGB2
D-sub 15
RGB1
DVI-D
TMDS
FC4
LVDS
Transmitter
FORMATTER PWB
X Sustain
Circuit
X-SUS.
Board
Scan Driver
Scan Driver
Y Sustain
Circuit
Y-SUS.
Board
Address Driver
LVDS Receiver
Signal Controller
Data Controller
Driver Controller
LOGIC Board
PDP PANEL MODULE
MAIN L/R
MAIN Y/$P_B$/$P_R$
SUB Y/$P_B$/$P_R$
MAIN HD/VD
SUB HD/VD
D+3.3V
<IF06> SI-3033C
D+3.3V Reg.
<IF07> SI-3033C
D+3.3V Reg.
D+1.8V
<IF08> SI-3018KM
D+1.8V Reg.
JOINT PWB
+30V
+12V
+10V
+6V
+5V
Reg.
+5V
SW Reg.
VCC
SW Reg.
Vs
SW.Reg.
Va
Vs(=70+10xVva)
Va(=30+20xVrs)
RELAY
SW
STBY+5V
SW Reg.
STBY+5V
PFC
STBY+3.3V
Reg.
STBY+3.3V
CPU
for P.S.U.
POWER SUPPLY UNIT
FILTER PWB
AC INLET
WITH
NOISE
FILTER
SW PWB
(Secondary)
(Primary)

**PW1(55V) CHASSIS CIRCUIT BLOCK DIAGRAM**

## 12. Connection diagram

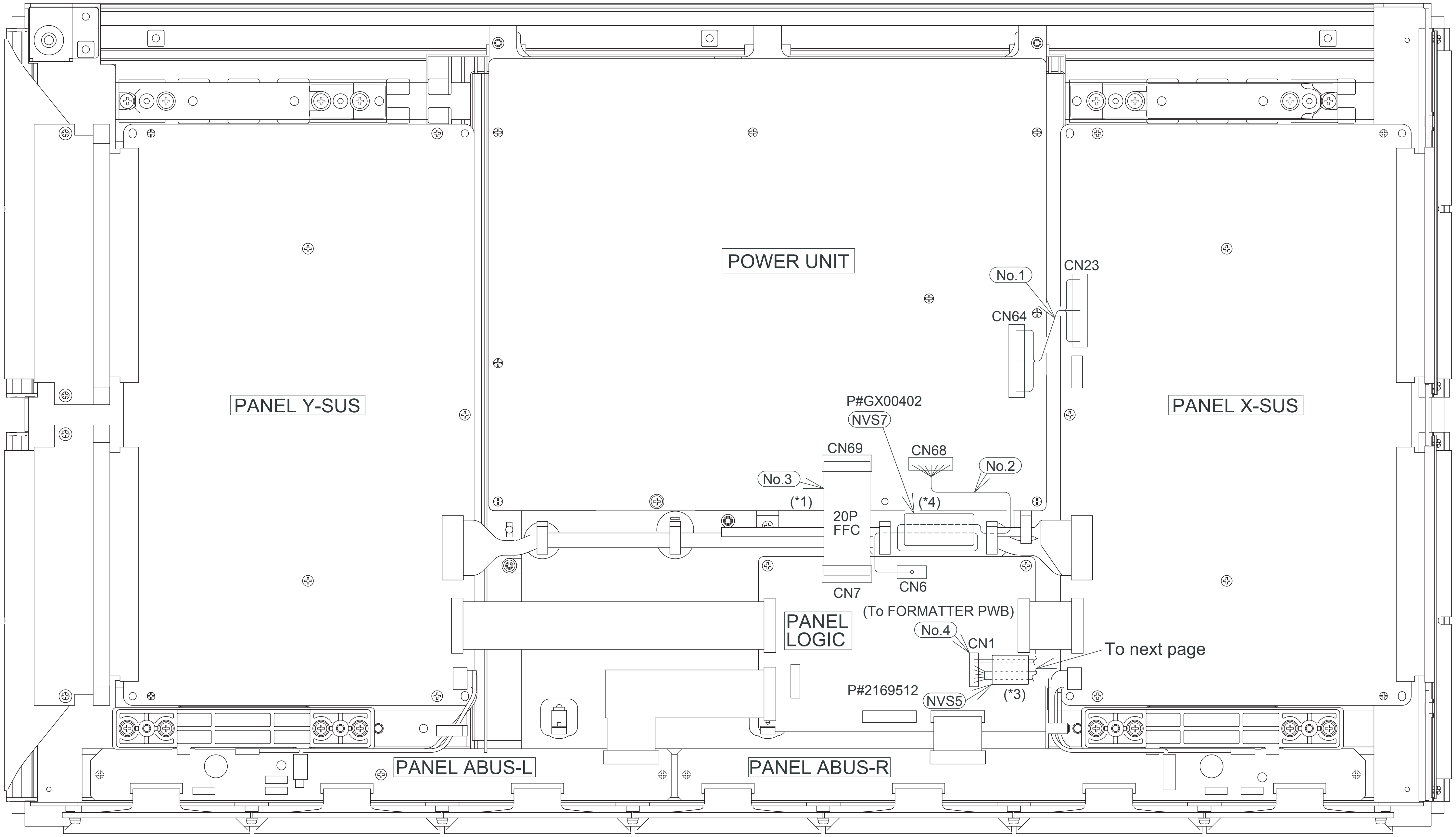

PDP PANEL
B10P-VH
B6B-PH
CN7 ZIF-20P
CN1 DF13-30DS
FORMATTER UNIT
EFM1 DF13-30DS
EFJ1 ZH-7P
EFJ2 ZH-11P
EFJ3 50P
EFJ4 ZH-12P
EFJ5 ZH-8P
EFJ6 ZH-8P
EFG2 ZH-8P
JOINT PWB
EJP1 B5B-EH
EJP2 B13B-EH
PVJ1 80P
CN64 B10P-VH
CN68 B6B-PH
CN69 20FMN-BT
CN63 B5B-EH
CNPPS B13B-EH
POWER UNIT
CN61 B6P-VH
PPU1 VH-6P
FILTER PWB
PPU2 VH-2P
PSW VH-8P
AC INLET
ESW AMP IN-4P
SW PWB
VIDEO PWB
PTV1 PH-8P
PTV2 50P
TUNER PWB
TACT SW PWB
ECON1 PH-4P
EFK1 ZH-4P
LED/RECEIVER PWB
PSC2 PH-6P
EFL1 ZH-6P
AUDIO PWB
EAF1 ZH-10P
EFA1 ZH-10P
EAJ1 PH-6P
EJA1 PH-6P
SP TERMINAL (L) PWB
PAS3 EH-2P
EAS1 EH-2P
SP TERMINAL (R) PWB
PAS4 EH-3P
EAS2 EH-3P
LCH+
LCH-
RCH+
RCH-
AC(L)
AC(N)

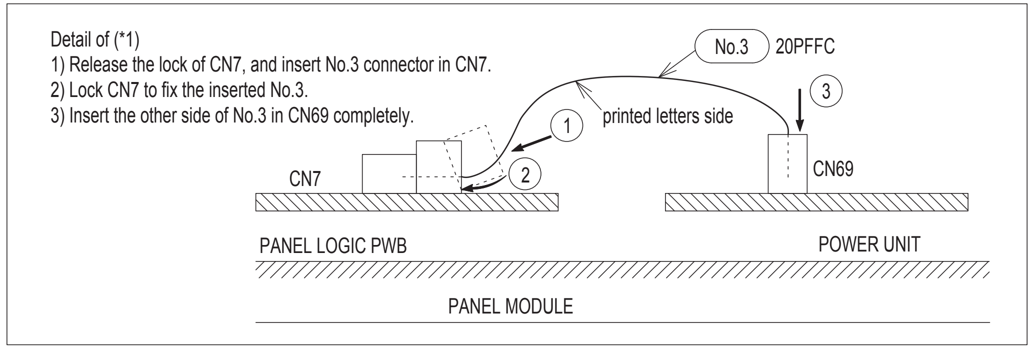
## 12. Connection diagram


SP TERMINAL (L) PWB
PAS3 EH-2P
EAS1 EH-2P
SP TERMINAL (R) PWB
PAS4 EH-3P
EAS2 EH-3P
SUB WOOFER PWB
EAS4 PH-2P
EAS3 PH-2P
TACT SW PWB
ECONT PH-4P
EFK1 ZH-4P
LED/RECEIVER PWB
PSC2 PH-6P
EFL1 ZH-6P
AUDIO PWB
EAF1 ZH-10P
EFA1 ZH-10P
EAJ1 PH-6P
EJA1 PH-6P
CN1 B10P-VH
CN3 B11B-PH
CN1 DF13-30DS
EFM1 DF13-30DS
FORMATTER UNIT
EFJ1 ZH-7P
EJF1 ZH-7P
EFJ2 ZH-11P
EJF2 ZH-11P
EFJ3
EJF3 FH12-50P
EFJ4 ZH-12P
EJF4 ZH-12P
EFG1
EJF5 ZH-9P
EFG2 ZH-8P
EJF6 ZH-8P
EJP1 B9B-EH
CN63 B9B-EH
EJP2 B13B-EH
CNPPS B13B-EH
PVJ1 5061-80P
PVJ1 5061-80P
VIDEO PWB
CN61 B6P-VH
PPU15 VH-6P
FILTER PWB
PPU25 VH-2P
PSW5 VH-8P
ESW BOARD IN-8P
AC INLET
SW PWB

## 13. Wiring diagram

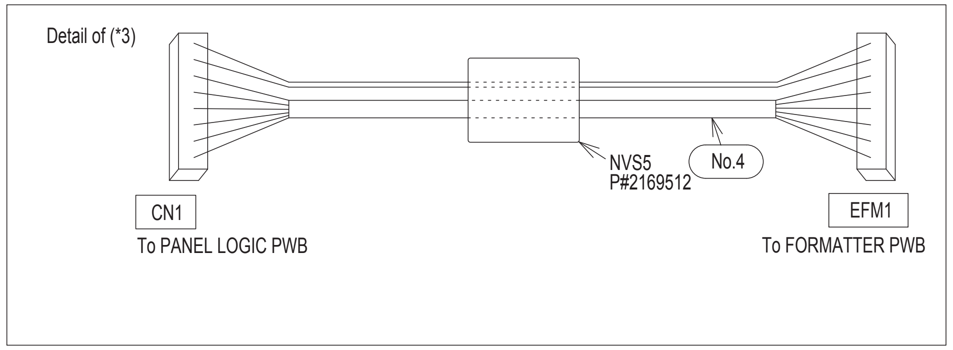
### [32PD5000]


POWER UNIT
No.1
CN23
CN64
PANEL Y-SUS
PANEL X-SUS
P#GX00402
NVS7
CN69
CN68
No.2
No.3
(*1)
(*4)
20P
FFC
CN7
CN6
(To FORMATTER PWB)
PANEL
LOGIC
No.4
CN1
To next page
P#2169512
NVS5
(*3)
PANEL ABUS-L
PANEL ABUS-R

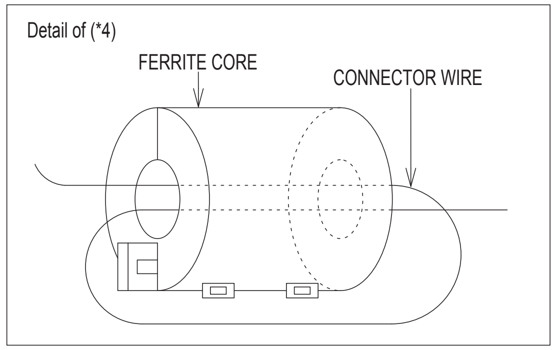

Detail of (*1)

1) Release the lock of CN7, and insert No.3 connector in CN7.
2) Lock CN7 to fix the inserted No.3.
3) Insert the other side of No.3 in CN69 completely.

No.3
20PFFC
printed letters side
①
②
③
CN7
CN69
PANEL LOGIC PWB
POWER UNIT
PANEL MODULE

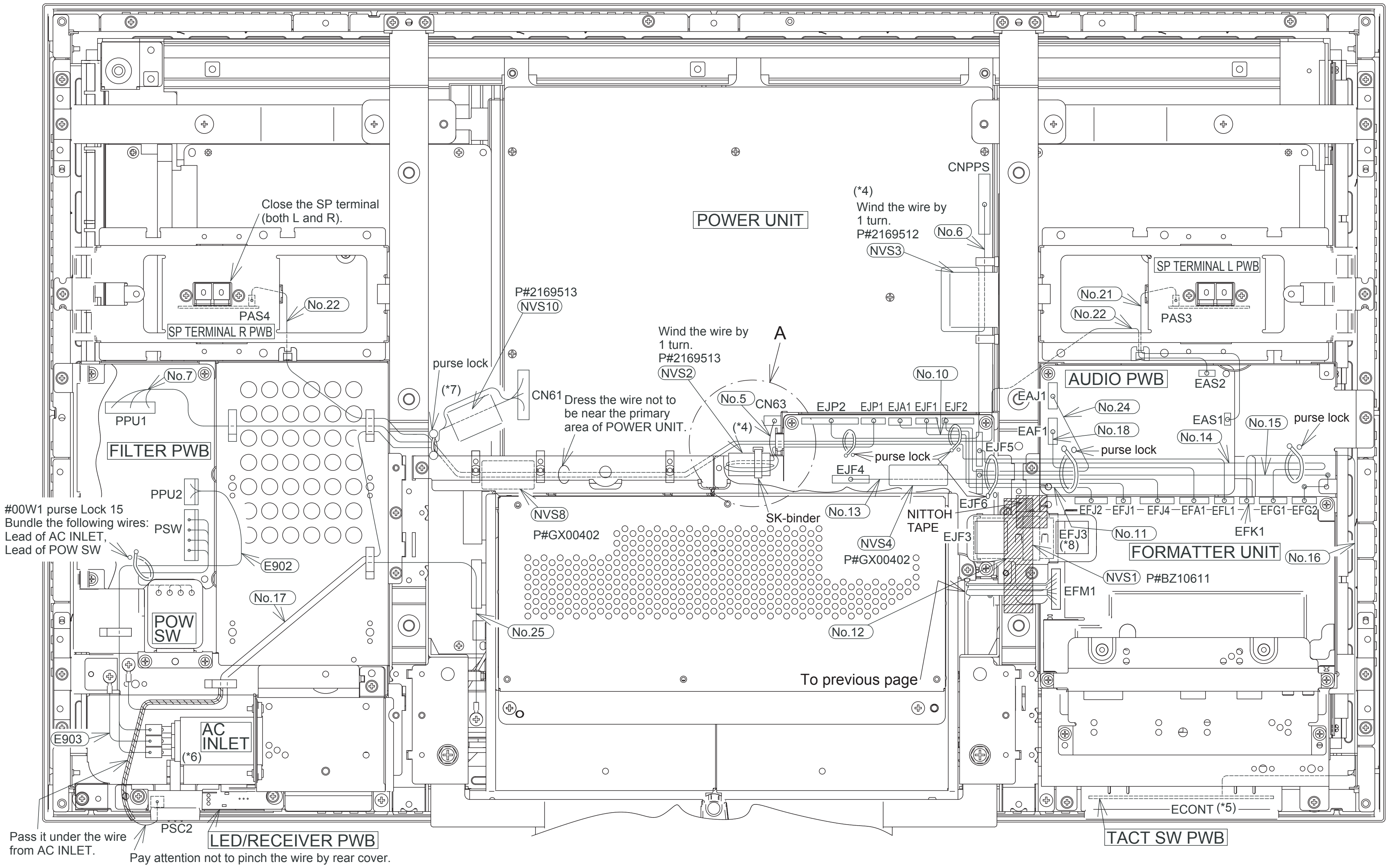

Detail of (*3)

NVS5
P#2169512
No.4
CN1
To PANEL LOGIC PWB
EFM1
To FORMATTER PWB


Detail of (*4)

FERRITE CORE
CONNECTOR WIRE

## [32PD5000]


POWER UNIT
CNPPS
No.6
NVS3
SP TERMINAL L PWB
No.21
No.22
PAS3
SP TERMINAL R PWB
PAS4
No.22
P#2169513
NVS10
A
No.7
PPU1
FILTER PWB
PPU2
PSW
E902
No.17
POW SW
purse lock
(*7)
CN61
No.5
CN63
(*4)
EJP2
EJP1
EJA1
EJF1
EJF2
No.10
EAJ1
AUDIO PWB
EAS2
No.24
EAF1
No.18
EAS1
No.15
No.14
purse lock
EJF5
EJF4
purse lock
SK-binder
No.13
NITTOH TAPE
EJF6
EJF3
NVS8
P#GX00402
NVS4
P#GX00402
EFJ2
EFJ1
EFJ4
EFA1
EFL1
EFG1
EFG2
EFK1
EFJ3
(*8)
No.11
FORMATTER UNIT
No.16
NVS1
P#BZ10611
EFM1
No.25
No.12
E903
AC INLET
(*6)
PSC2
LED/RECEIVER PWB
ECONT (*5)
TACT SW PWB

Close the SP terminal (both L and R).

(*4) Wind the wire by 1 turn. P#2169512

Wind the wire by 1 turn. P#2169513 NVS2

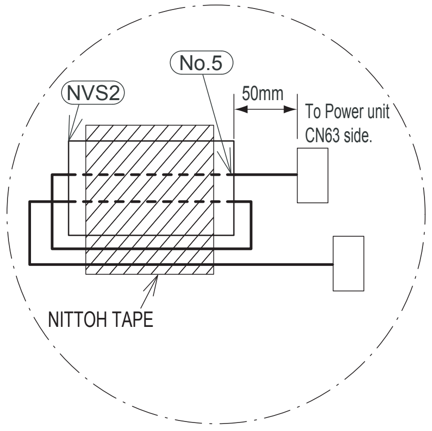
Dress the wire not to be near the primary area of POWER UNIT.

#00W1 purse Lock 15
Bundle the following wires:
Lead of AC INLET,
Lead of POW SW

To previous page

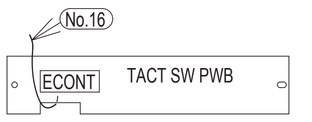
Pass it under the wire from AC INLET.

Pay attention not to pinch the wire by rear cover.

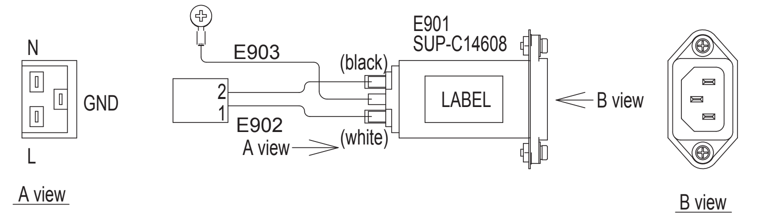

No.5
NVS2
50mm
To Power unit CN63 side.
NITTOH TAPE

Detail of A

Detail of (*5)

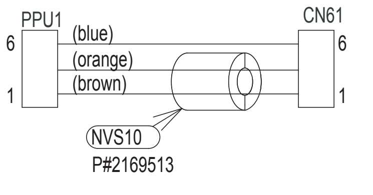

No.16
ECONT
TACT SW PWB

Detail of (*6)

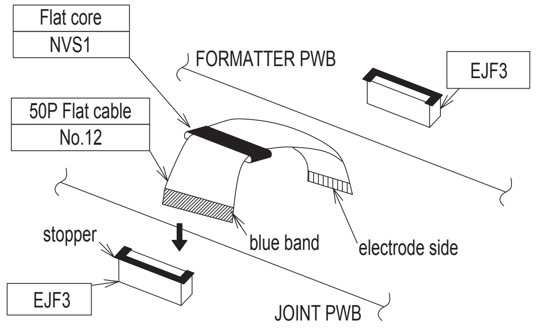

N
GND
L
A view
E903
2
1
E902
A view
(black)
(white)
E901
SUP-C14608
LABEL
B view
B view

Faston connector with Lock:
Connect it completely to be locked.
Disconnect it pushing the button to release the lock.

Detail of (*7)

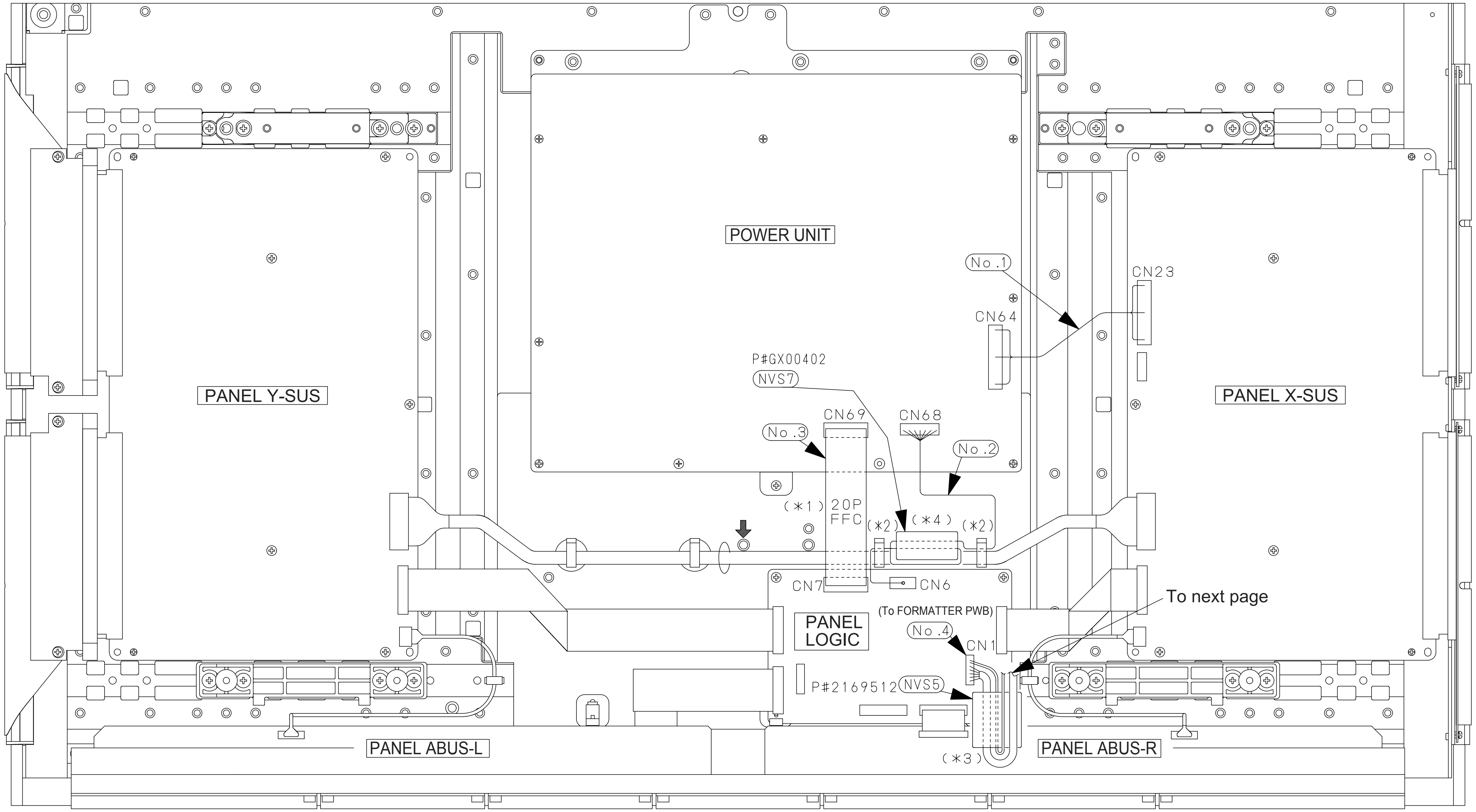

PPU1
6
1
(blue)
(orange)
(brown)
CN61
6
1
NVS10
P#2169513

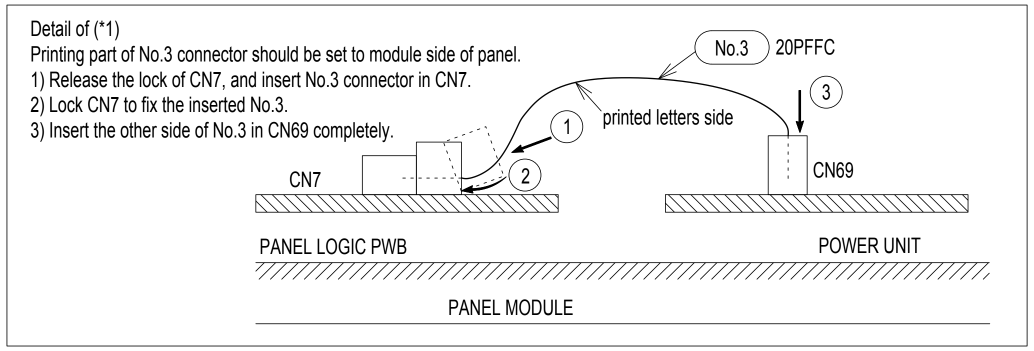
Detail of (*8)
Pass No.12 connector through NVS1.
Insert it in EJF3/EJF3 and push the stopper down to lock.


Flat core
NVS1
FORMATTER PWB
EJF3
50P Flat cable
No.12
stopper
blue band
electrode side
EJF3
JOINT PWB

## *Wiring diagram*

### 37PD5000 1/2


POWER UNIT
No.1
CN23
CN64
P#GX00402
NVS7
CN69
CN68
No.3
No.2
(*1) 20P FFC
(*2)
(*4)
(*2)
PANEL Y-SUS
PANEL X-SUS
CN7
CN6
To next page
PANEL LOGIC
(To FORMATTER PWB)
No.4
CN1
P#2169512
NVS5
PANEL ABUS-L
PANEL ABUS-R
(*3)


Detail of (*1)

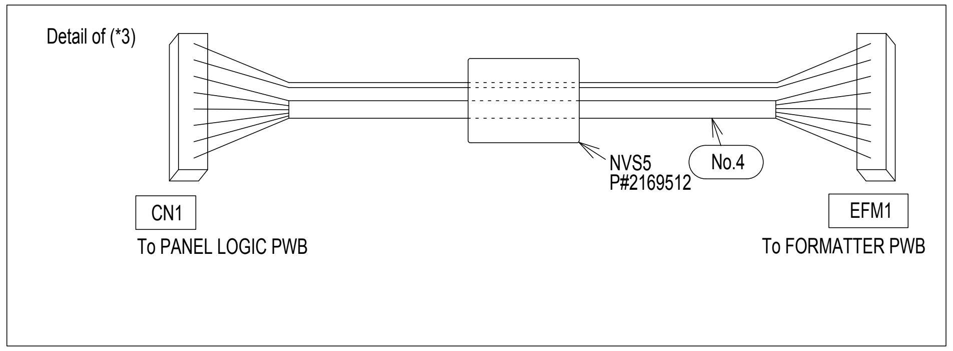
Printing part of No.3 connector should be set to module side of panel.

1) Release the lock of CN7, and insert No.3 connector in CN7.

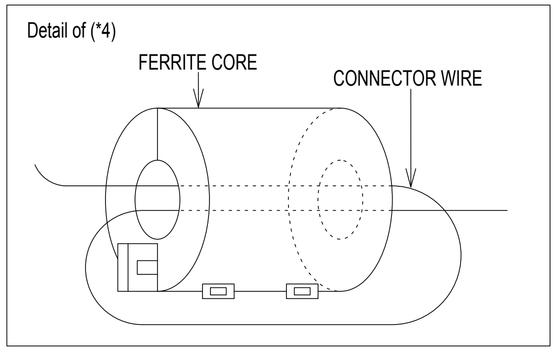
2) Lock CN7 to fix the inserted No.3.

3) Insert the other side of No.3 in CN69 completely.

No.3
20PFFC
3
1
printed letters side
2
CN7
CN69
PANEL LOGIC PWB
POWER UNIT
PANEL MODULE

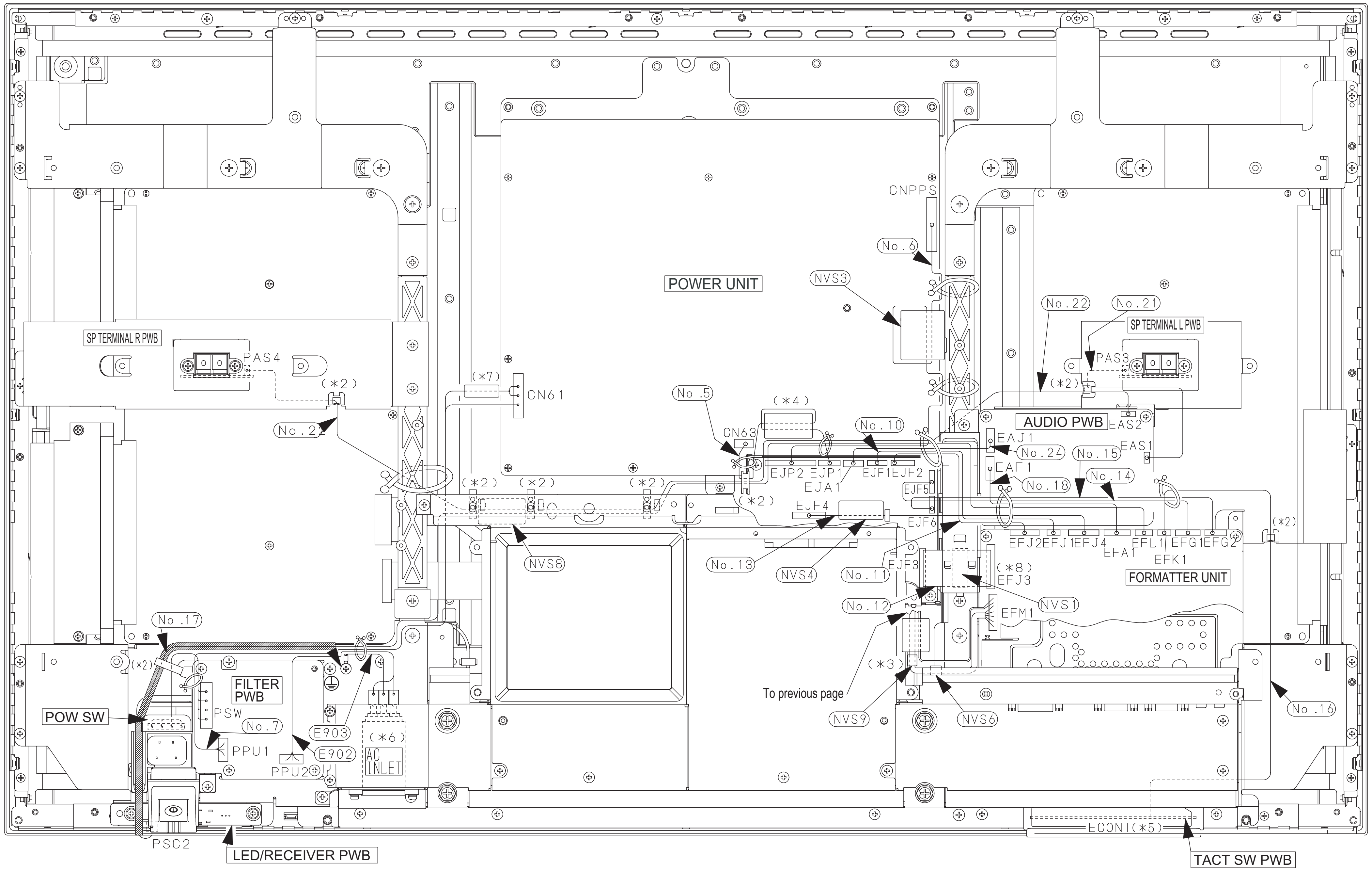

Detail of (*3)

NVS5
P#2169512
No.4
CN1
To PANEL LOGIC PWB
EFM1
To FORMATTER PWB

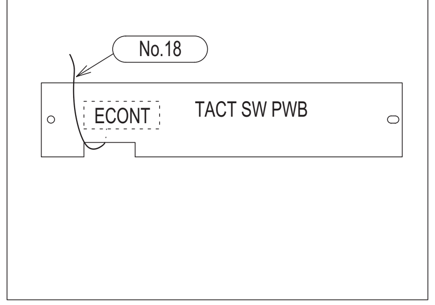

Detail of (*4)

FERRITE CORE
CONNECTOR WIRE

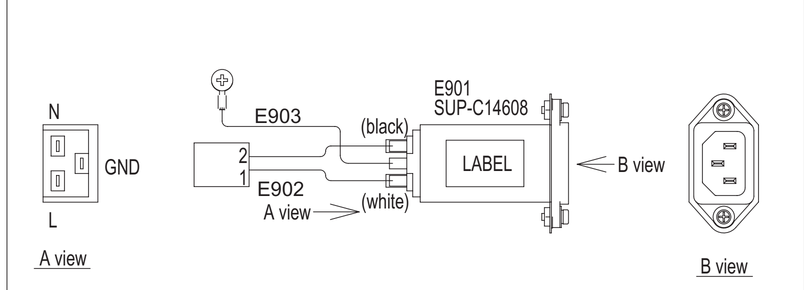
## Wiring diagram 2/2


POWER UNIT
CNPPS
No.6
NVS3
No.22
No.21
SP TERMINAL L PWB
PAS3
(*2)
SP TERMINAL R PWB
PAS4
(*2)
No.2
(*7)
CN61
No.5
(*4)
CN63
No.10
AUDIO PWB
EAS2
EAJ1
No.24
No.15
EAS1
EAF1
No.14
No.18
EJP2
EJP1
EJF1
EJF2
EJA1
EJF5
(*2)
(*2)
(*2)
(*2)
EJF4
EJF6
EFJ2
EFJ1
EFJ4
EFA1
EFL1
EFG1
EFG2
EFK1
(*2)
NVS8
No.13
NVS4
No.11
EJF3
(*8)
EFJ3
FORMATTER UNIT
No.12
NVS1
EFM1
No.17
(*2)
FILTER PWB
POW SW
PSW
No.7
PPU1
E903
E902
PPU2
(*6)
AC INLET
(*3)
To previous page
NVS9
NVS6
No.16
PSC2
LED/RECEIVER PWB
ECONT(*5)
TACT SW PWB

Detail of (*5)

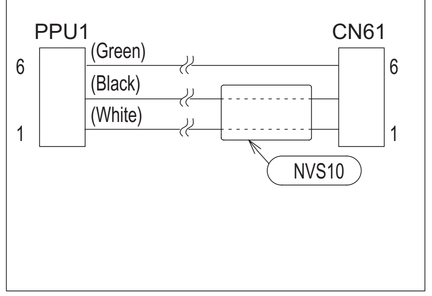

No.18
ECONT
TACT SW PWB

Detail of (*6)


N
GND
L
A view
E903
E901
SUP-C14608
(black)
2
1
E902
A view
(white)
LABEL
B view
B view

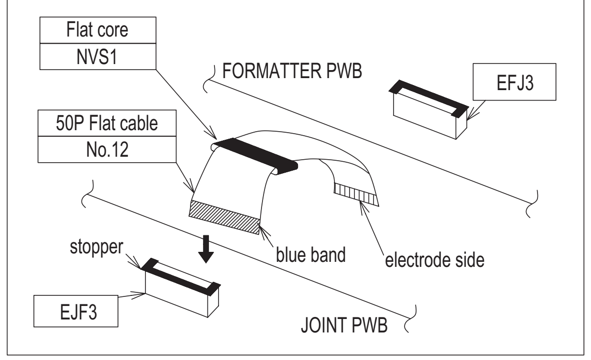
Faston connector with Lock:
Connect it completely to be locked.
Disconnect it pushing the button to release the lock.

Detail of (*7)

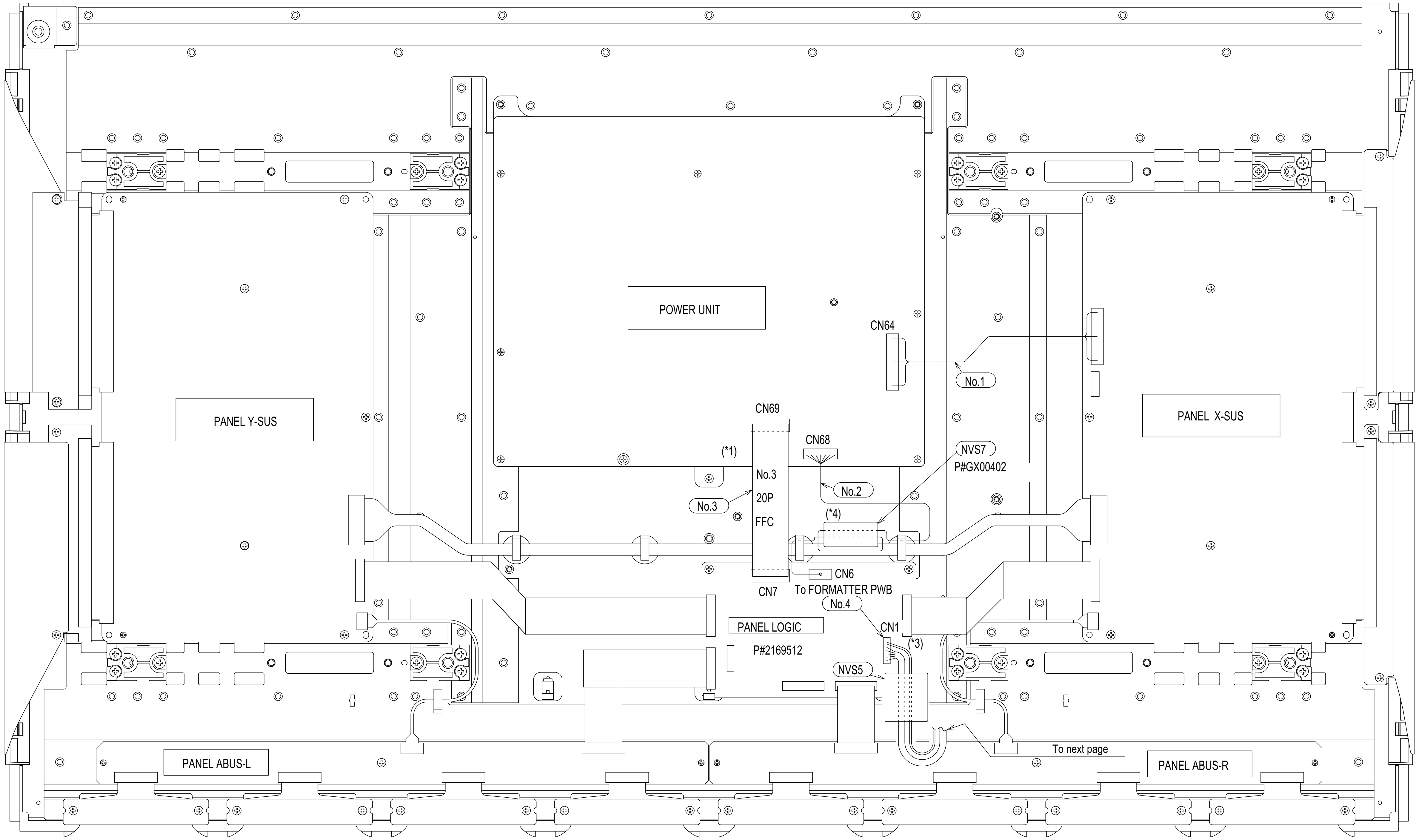

PPU1
CN61
6
(Green)
(Black)
(White)
1
6
1
NVS10

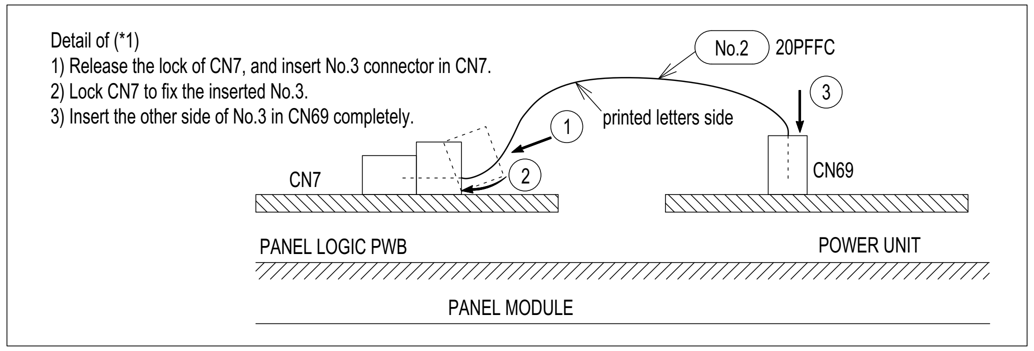
Detail of (*8)

Pass No.12 connector through NVS1.
Insert it in EJF3/EFJ3 and push the stopper down to lock.


Flat core
NVS1
FORMATTER PWB
EFJ3
50P Flat cable
No.12
stopper
blue band
electrode side
EJF3
JOINT PWB

## [42PD5000]


POWER UNIT
CN64
No.1
PANEL Y-SUS
PANEL X-SUS
CN69
CN68
(*1)
No.3
20P
FFC
No.3
No.2
NVS7
P#GX00402
(*4)
CN6
To FORMATTER PWB
CN7
No.4
PANEL LOGIC
P#2169512
CN1
(*3)
NVS5
To next page
PANEL ABUS-L
PANEL ABUS-R

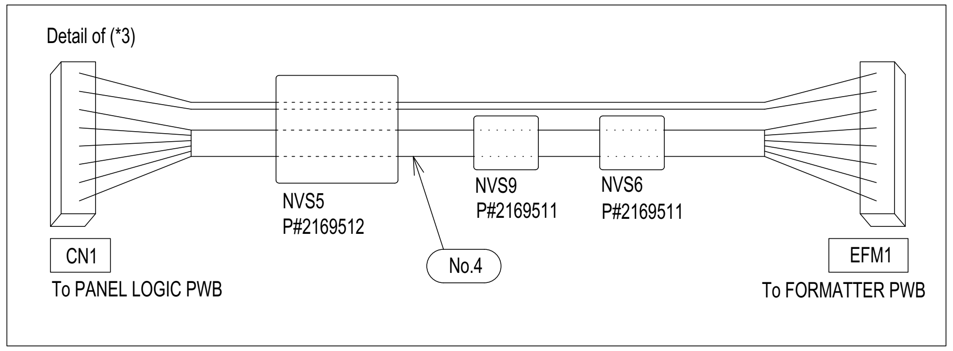

Detail of (*1)

1) Release the lock of CN7, and insert No.3 connector in CN7.

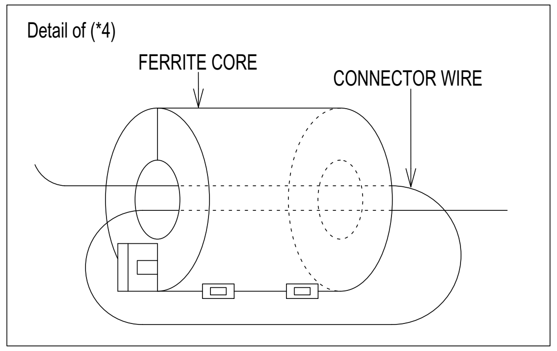
2) Lock CN7 to fix the inserted No.3.

3) Insert the other side of No.3 in CN69 completely.

No.2
20PFFC
printed letters side
1
2
3
CN7
CN69
PANEL LOGIC PWB
POWER UNIT
PANEL MODULE

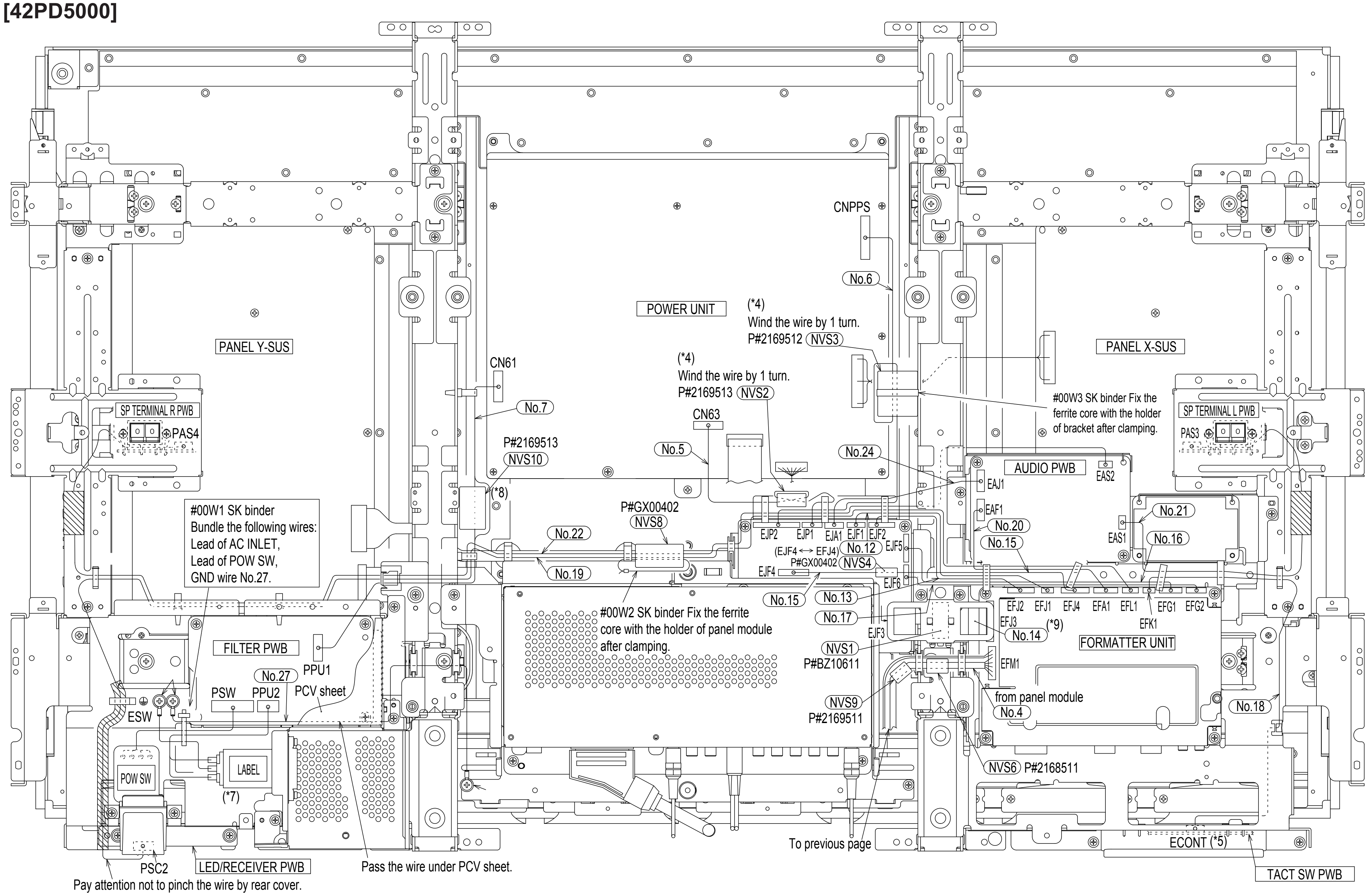

Detail of (*3)

NVS5
P#2169512
NVS9
P#2169511
NVS6
P#2169511
No.4
CN1
To PANEL LOGIC PWB
EFM1
To FORMATTER PWB

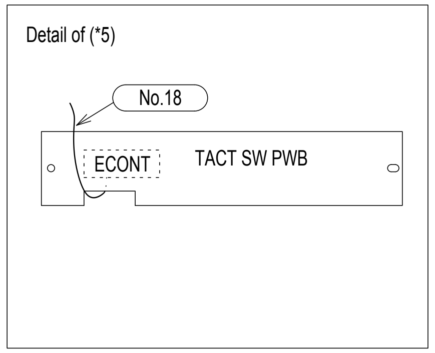

Detail of (*4)

FERRITE CORE
CONNECTOR WIRE

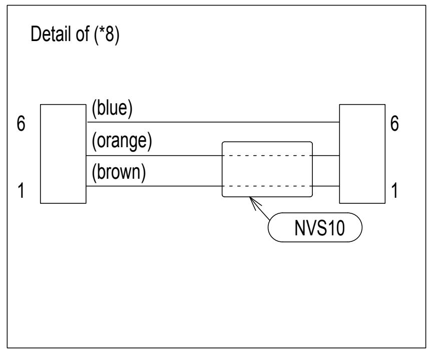
## [42PD5000]


CNPPS
No.6
POWER UNIT
(*4)
Wind the wire by 1 turn.
P#2169512 NVS3
(*4)
Wind the wire by 1 turn.
P#2169513 NVS2
PANEL Y-SUS
PANEL X-SUS
CN61
No.7
CN63
P#2169513
NVS10
No.5
No.24
#00W3 SK binder Fix the ferrite core with the holder of bracket after clamping.
SP TERMINAL R PWB
PAS4
SP TERMINAL L PWB
PAS3
AUDIO PWB
EAJ1
EAS2
EAF1
No.21
No.20
EAS1
No.16
No.15
(*8)
#00W1 SK binder
Bundle the following wires:
Lead of AC INLET,
Lead of POW SW,
GND wire No.27.
P#GX00402
NVS8
No.22
No.19
EJP2 EJP1 EJA1 EJF1 EJF2
(EJF4 ↔ EFJ4) No.12 EJF5
P#GX00402 NVS4
EJF4
EJF6
No.15
No.13
No.17
#00W2 SK binder Fix the ferrite core with the holder of panel module after clamping.
EFJ2 EFJ1 EFJ4 EFA1 EFL1 EFG1 EFG2
EFJ3
(*9)
EFK1
No.14
FORMATTER UNIT
EJF3
NVS1
P#BZ10611
EFM1
FILTER PWB
PPU1
No.27
PSW PPU2
PCV sheet
ESW
NVS9
P#2169511
from panel module
No.4
No.18
LABEL
POW SW
(*7)
NVS6 P#2168511
To previous page
ECONT (*5)
PSC2
LED/RECEIVER PWB
Pass the wire under PCV sheet.
Pay attention not to pinch the wire by rear cover.
TACT SW PWB

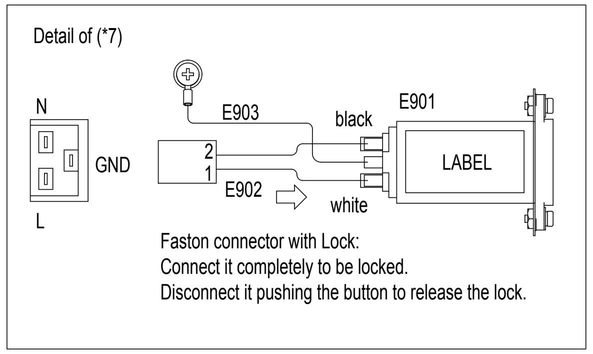
Detail of (*5)


No.18
ECONT
TACT SW PWB

Detail of (*8)


6
(blue)
(orange)
(brown)
1
6
1
NVS10

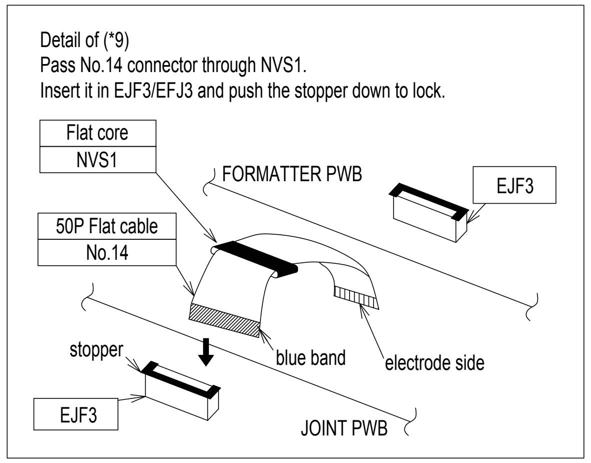
Detail of (*7)


N
L
GND
E903
black
E901
2
1
E902
white
LABEL

Faston connector with Lock:
Connect it completely to be locked.
Disconnect it pushing the button to release the lock.

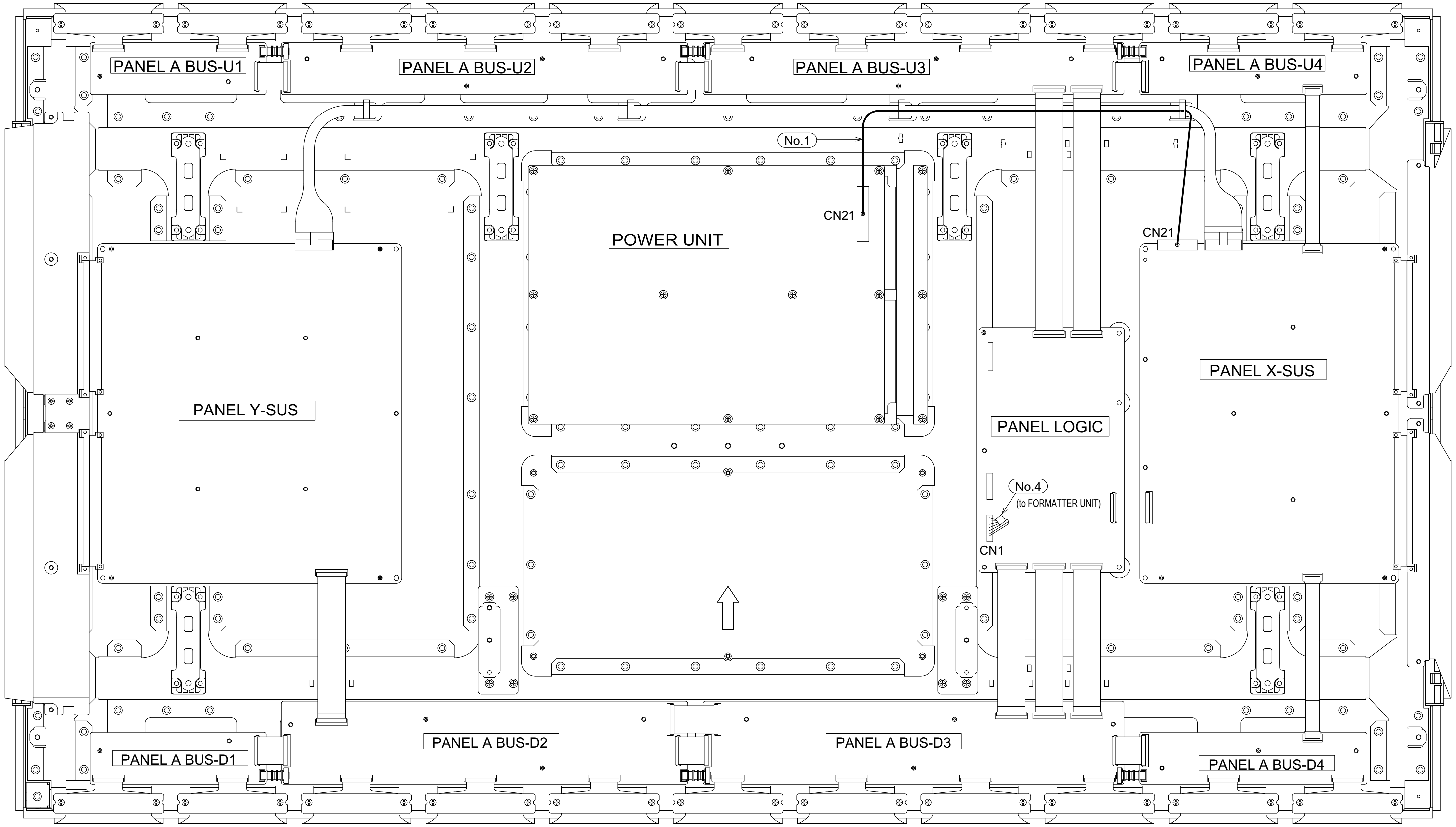
Detail of (*9)

Pass No.14 connector through NVS1.
Insert it in EJF3/EFJ3 and push the stopper down to lock.


Flat core
NVS1
FORMATTER PWB
EFJ3
50P Flat cable
No.14
stopper
blue band
electrode side
EJF3
JOINT PWB

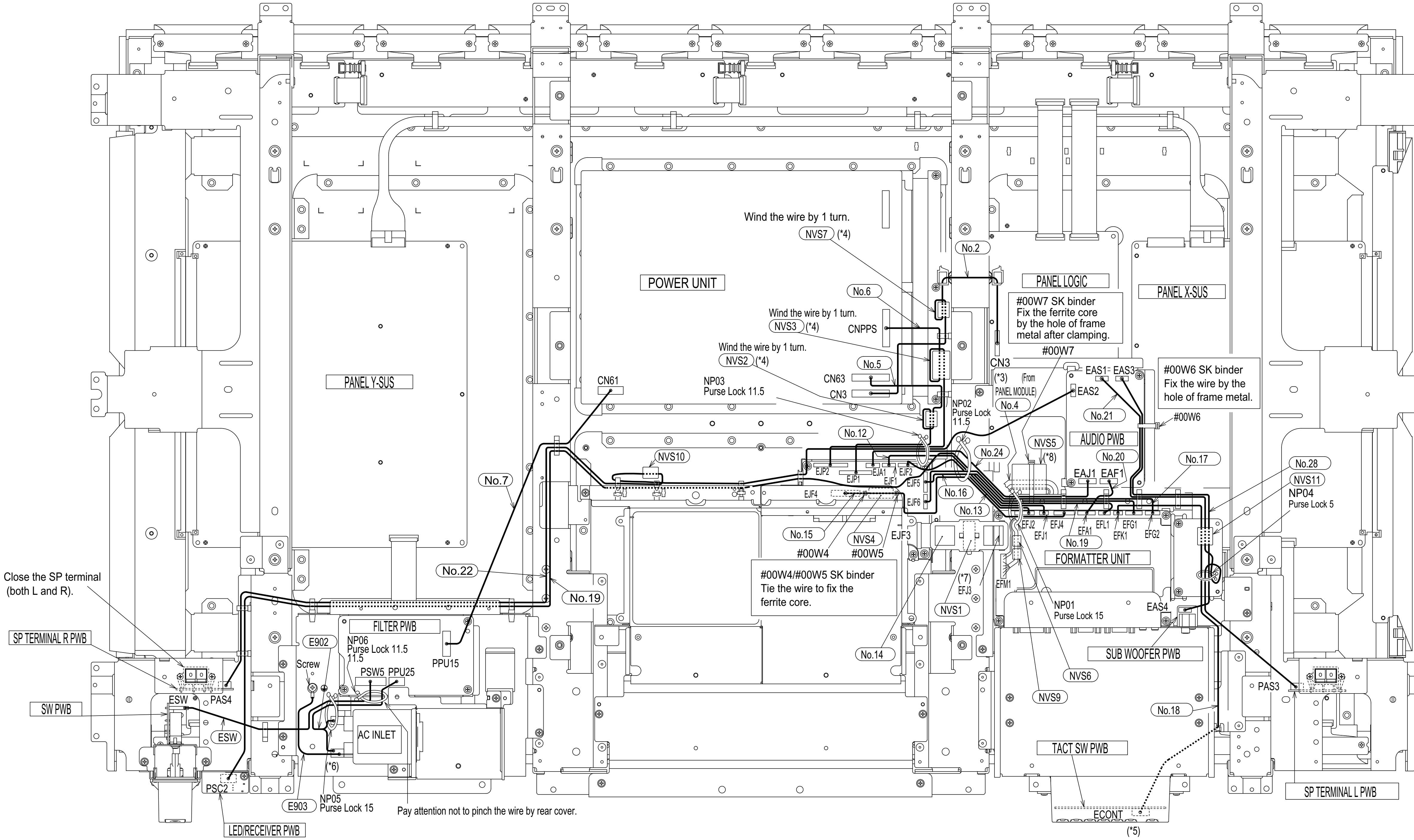
## *Wiring diagram*

### Wiring diagram 1/2


PANEL A BUS-U1
PANEL A BUS-U2
PANEL A BUS-U3
PANEL A BUS-U4
No.1
CN21
POWER UNIT
CN21
PANEL Y-SUS
PANEL X-SUS
PANEL LOGIC
No.4
(to FORMATTER UNIT)
CN1
PANEL A BUS-D1
PANEL A BUS-D2
PANEL A BUS-D3
PANEL A BUS-D4

| From | | Connector Wire | To | |
|---|---|---|---|---|
| Connecting Point | P.W.B. | | Connecting Point | P.W.B. |
| CN21 | POWER | NO1 | CN21 | PANEL X-SUS |
| CN3 | POWER | NO2 | CN3 | PANEL LOGIC |
| EFM1 | FORMATTER | NO4 | CN1 | PANEL LOGIC |
| CN63 | POWER | NO5 | EJP1 | JOINT |
| CNPPS | POWER | NO6 | EJP2 | JOINT |
| CN61 | POWER | NO7 | PPU15 | FILTER |
| EJF1 | JOINT | NO12 | EFJ1 | FORMATTER |
| EJF2 | JOINT | NO13 | EFJ2 | FORMATTER |
| EJF3 | JOINT | NO14 | EFJ3 | FORMATTER |
| EJF4 | JOINT | NO15 | EFJ4 | FORMATTER |
| EFG1 | FORMATTER | NO16 | EJF5 | JOINT |
| EFG2 | FORMATTER | NO17 | EJF6 | JOINT |
| EFK1 | FORMATTER | NO18 | ECONT | TACT SW |
| EFL1 | FORMATTER | NO19 | PSC2 | LED/RECEIVER |
| EFA1 | FORMATTER | NO20 | EAF1 | AUDIO |
| EAS1 | AUDIO | NO21 | PAS3 | SP TERMINAL L |
| EAS2 | AUDIO | NO22 | PAS4 | SP TERMINAL R |
| EJA1 | JOINT | NO24 | EAJ1 | AUDIO |
| EAS3 | AUDIO | NO28 | EAS4 | SUB WOOFER |
| AC INLET | AC INLET | E902 | PPU25 | FILTER |
| AC INLET | AC INLET | E903 | Chassis GND | Chassis GND |
| PSW5 | FILTER | ESW | ESW | SW |

## Wiring diagram 2/2


Wind the wire by 1 turn. NVS7 (*4)

Wind the wire by 1 turn. NVS3 (*4)

Wind the wire by 1 turn. NVS2 (*4)

#00W7 SK binder
Fix the ferrite core
by the hole of frame
metal after clamping.

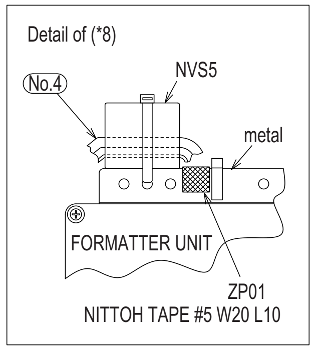
#00W6 SK binder
Fix the wire by the
hole of frame metal.

#00W4/#00W5 SK binder
Tie the wire to fix the
ferrite core.

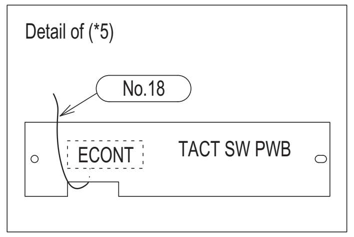
Close the SP terminal
(both L and R).

Pay attention not to pinch the wire by rear cover.
POWER UNIT
PANEL Y-SUS
PANEL LOGIC
PANEL X-SUS
No.2
No.6
CNPPS
No.5
CN63
CN3
CN61
NP03
Purse Lock 11.5
NP02
Purse Lock
11.5
CN3
#00W7
(*3)
(From
PANEL MODULE)
No.4
EAS1
EAS3
EAS2
No.21
#00W6
AUDIO PWB
NVS5
(*8)
No.24
No.20
No.17
No.12
NVS10
EJP2
EJP1
EJA1
EJF2
EJF1
EJF5
EJF4
EJF6
No.16
No.13
EAJ1
EAF1
EFJ2
EFJ4
EFJ1
EFA1
EFL1
EFK1
EFG1
EFG2
No.19
FORMATTER UNIT
No.28
NVS11
NP04
Purse Lock 5
No.7
No.15
NVS4
EJF3
#00W4
#00W5
(*7)
EFJ3
EFM1
NVS1
NP01
Purse Lock 15
EAS4
No.22
No.19
No.14
SUB WOOFER PWB
NVS6
NVS9
No.18
TACT SW PWB
ECONT
(*5)
PAS3
SP TERMINAL L PWB
SP TERMINAL R PWB
SW PWB
ESW
PAS4
ESW
PSC2
LED/RECEIVER PWB
FILTER PWB
E902
NP06
Purse Lock 11.5
11.5
Screw
PSW5
PPU25
PPU15
AC INLET
(*6)
E903
NP05
Purse Lock 15

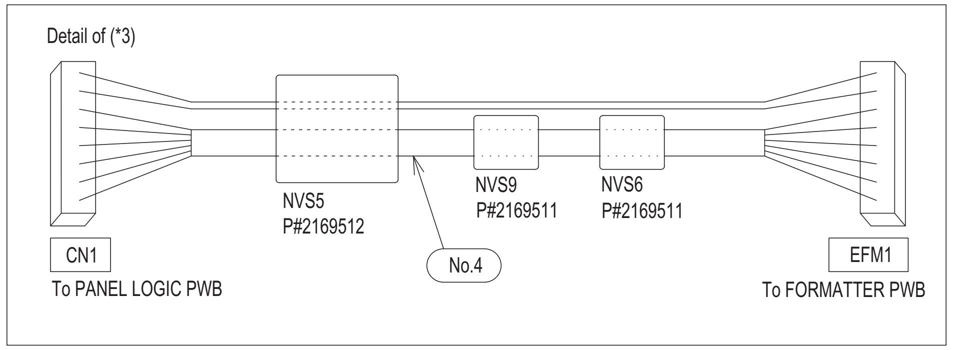
Detail of (*8)


No.4
NVS5
metal
FORMATTER UNIT
ZP01
NITTOH TAPE #5 W20 L10

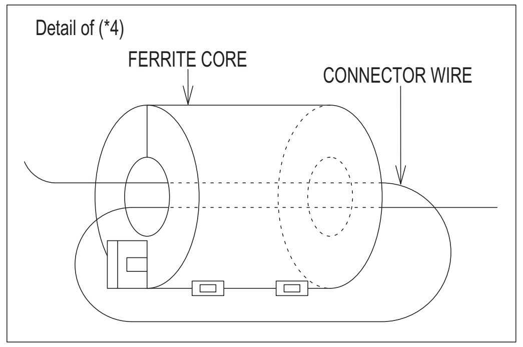
Detail of (*5)


No.18
ECONT
TACT SW PWB

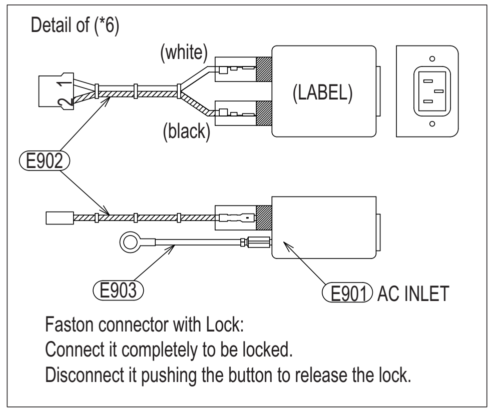
Detail of (*3)


NVS5
P#2169512
NVS9
P#2169511
NVS6
P#2169511
No.4
CN1
To PANEL LOGIC PWB
EFM1
To FORMATTER PWB

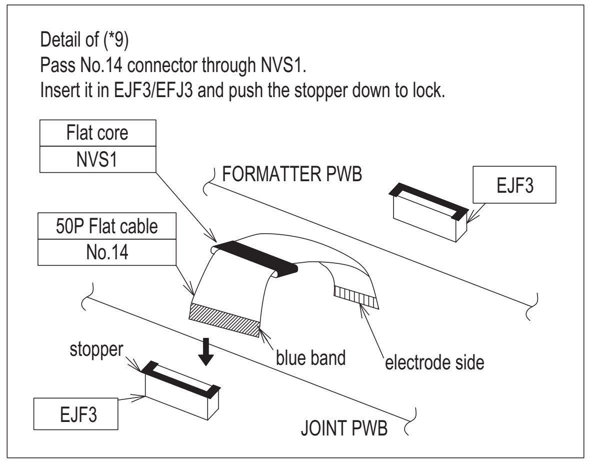
Detail of (*4)


FERRITE CORE
CONNECTOR WIRE

Detail of (*6)


Faston connector with Lock:
Connect it completely to be locked.
Disconnect it pushing the button to release the lock.
(white)
(LABEL)
(black)
E902
E903
E901
AC INLET

Detail of (*9)
Pass No.14 connector through NVS1.
Insert it in EJF3/EFJ3 and push the stopper down to lock.


Flat core
NVS1
FORMATTER PWB
EJF3
50P Flat cable
No.14
blue band
electrode side
stopper
EJF3
JOINT PWB

## *14. Disassembly diagram*

### [32PD5000]

### The figure of FHP Panel Module (32V)

(Rear view
The state of a panel simple substance.)

Y-SUS PWB ASS'Y
Manufactured at FHP factory.

LOGIC PWB ASS'Y
Manufactured at FHP factory.

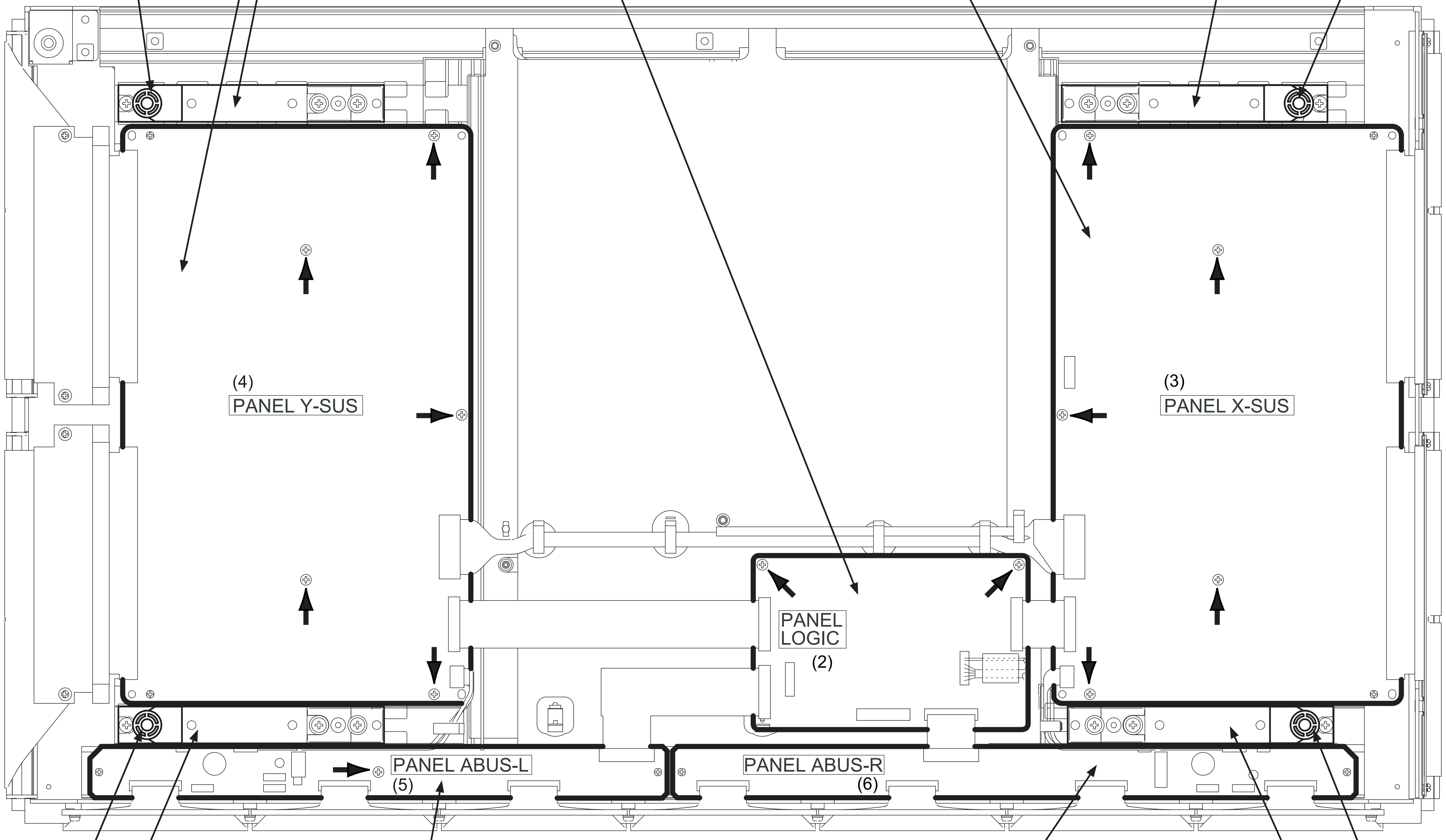
X-SUS PWB ASS'Y
Manufactured at FHP factory.

Attachment for packing
* Apply it before packing this panel module.

Handle

Handle

Attachment for packing
* Apply it before packing this panel module.



Attachment for packing
* Apply it before packing this panel module.

Handle for packing
* Apply it before packing this panel module.

L-ADR PWB ASS'Y
Manufactured at FHP factory.

R-ADR PWB ASS'Y
Manufactured at FHP factory.

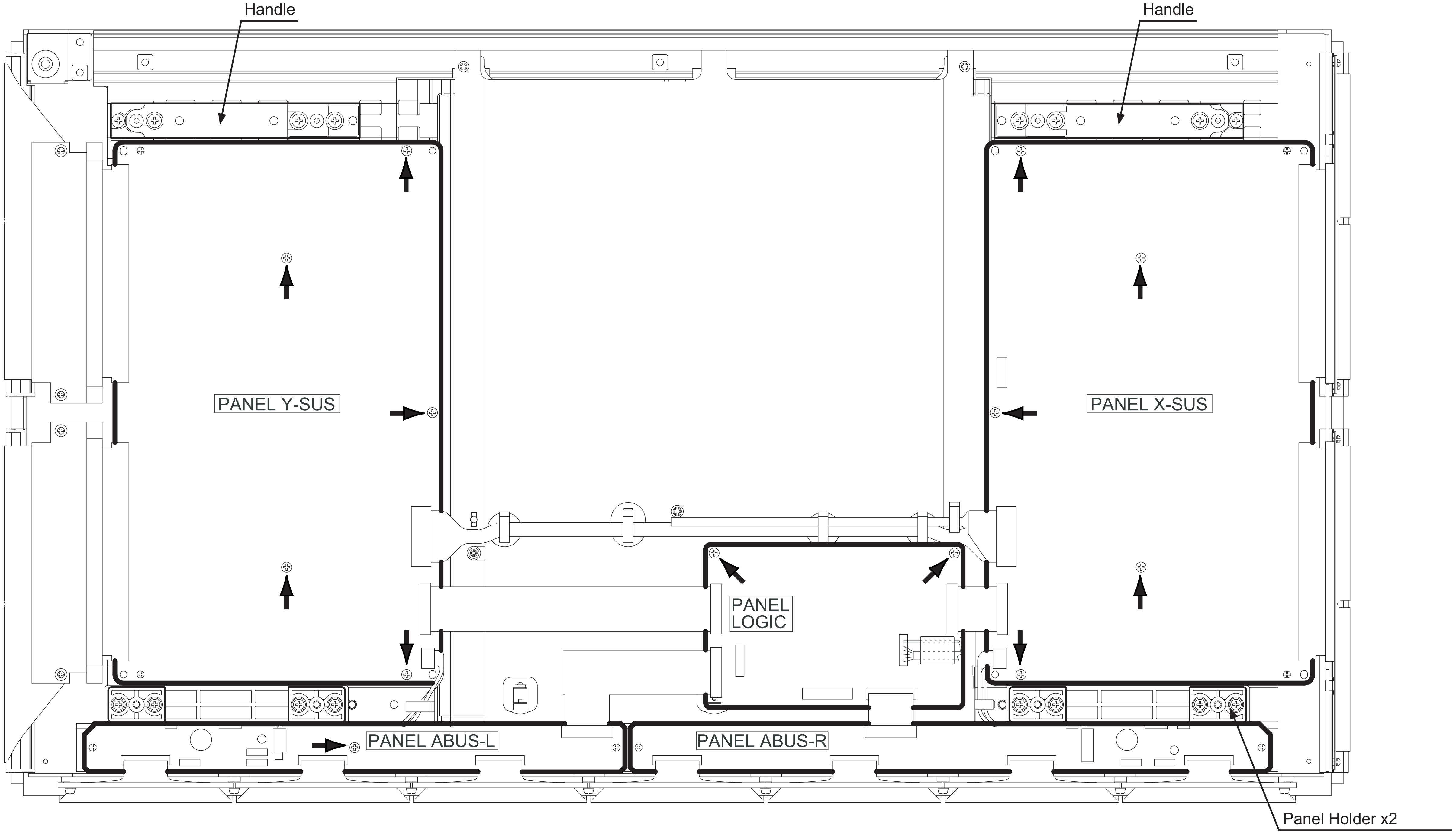
Attachment for packing
* Apply it before packing this panel module.

Handle for packing
* Apply it before packing this panel module.

| No. | Spare Part Name | FHP Spare Part# |
|---|---|---|
| (1) | Panel Module | FPF32C106128UB-55 |
| (2) | LOGIC PWB Ass'y | FPF20R-LGC0001(A1 ASIC) |
| (3) | X-SUS PWB Ass'y | FPF20R-XSS0001 |
| (4) | Y-SUS PWB Ass'y | FPF20R-YSS0002 |
| (5) | A-BUS L PWB Ass'y | FPF20R-ABL0003 |
| (6) | A-BUS R PWB Ass'y | FPF20R-ABR0004 |

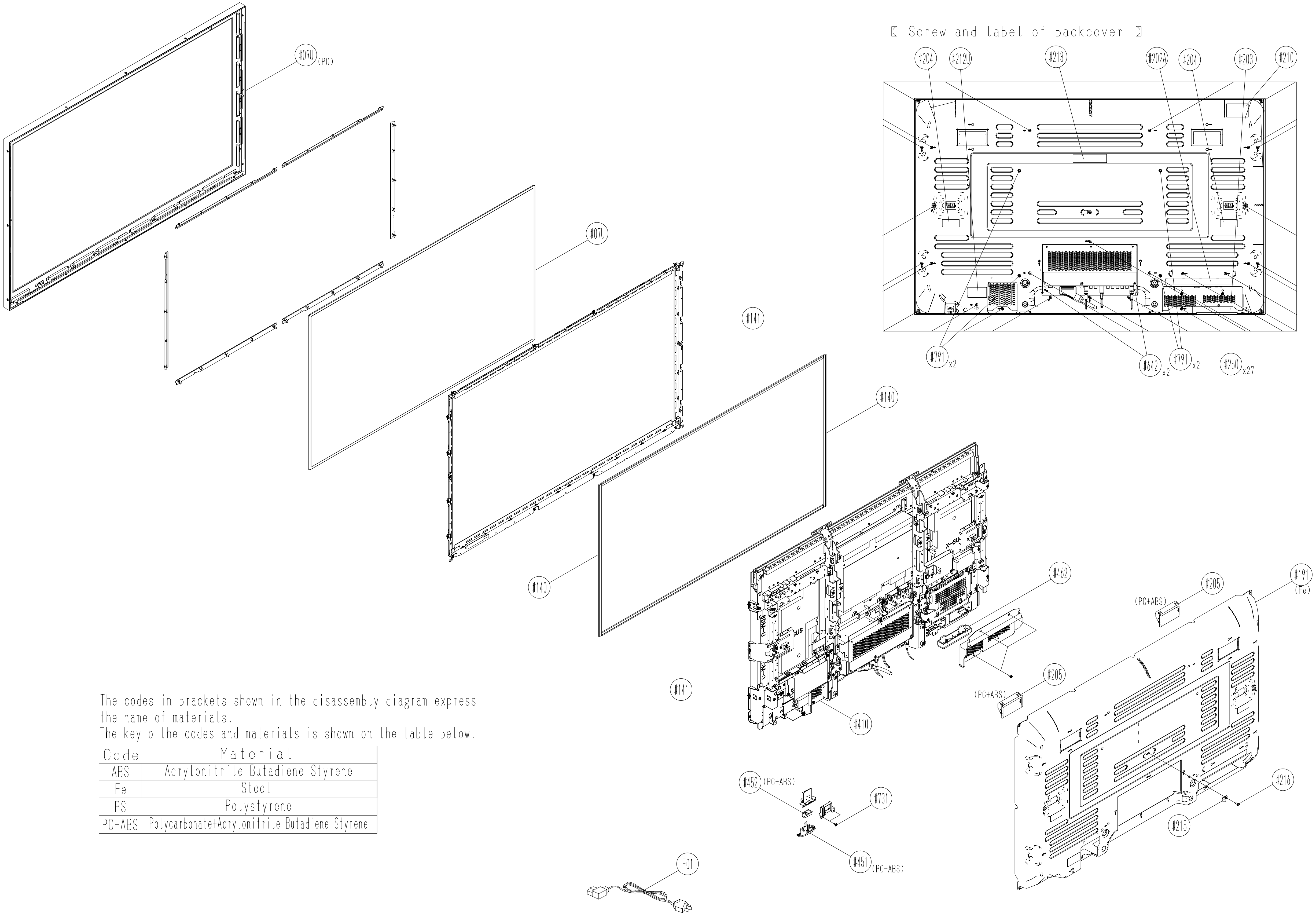
## Panel Module (32V)

[The assembled form in a product (before servcing)]


Handle
Handle
PANEL Y-SUS
PANEL X-SUS
PANEL LOGIC
PANEL ABUS-L
PANEL ABUS-R
Panel Holder x2

* Remove these holders and apply the handles / attachments for packing.

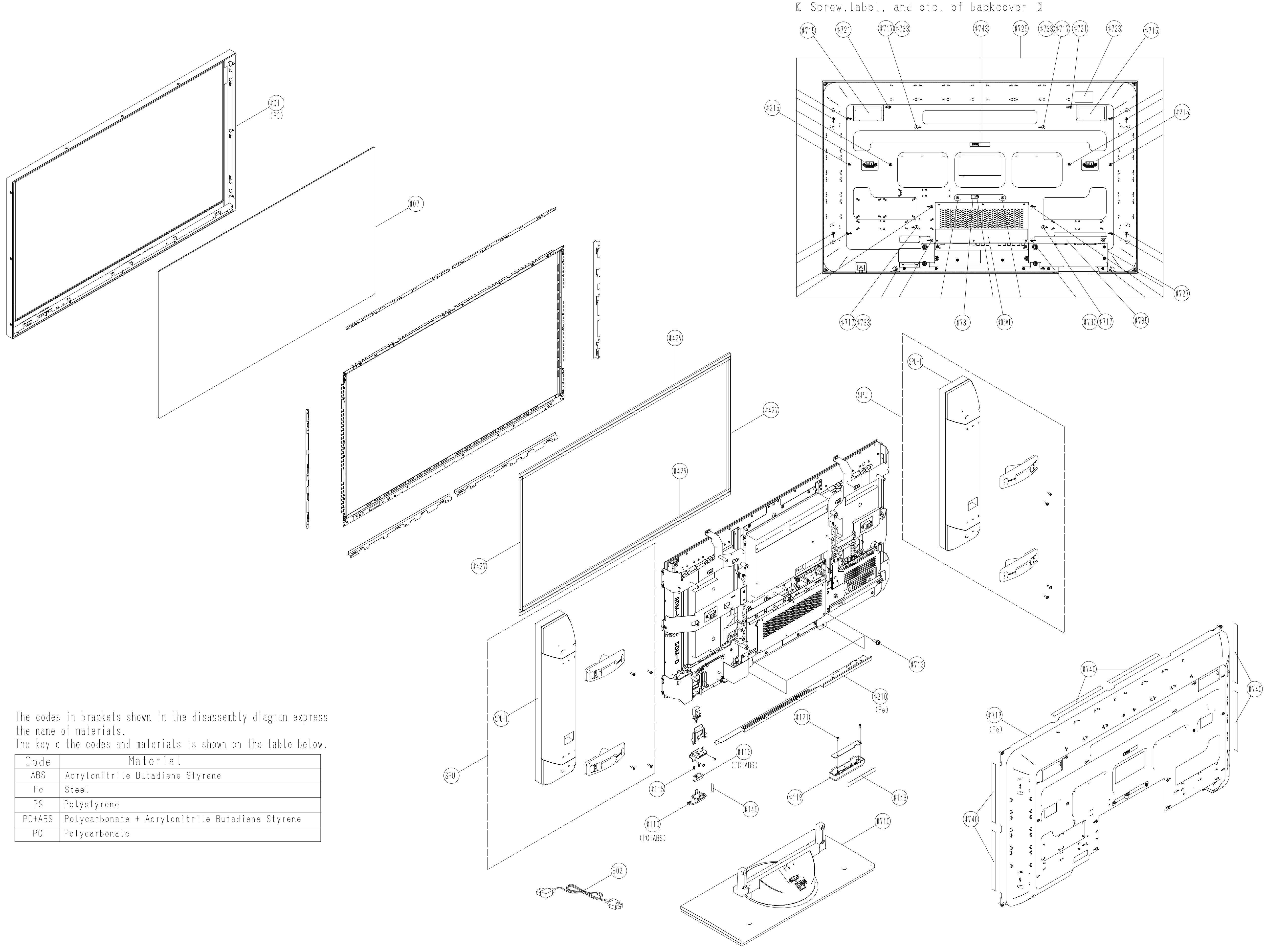
## [42PD5000]


《 Screw and label of backcover 》
#204
#212U
#213
#202A
#204
#203
#210
#791 x2
#642 x2
#791 x2
#250 x27
#09U (PC)
#07U
#141
#140
#140
#141
#462
#205 (PC+ABS)
#191 (Fe)
#205 (PC+ABS)
#410
#452 (PC+ABS)
#731
#451 (PC+ABS)
#216
#215
E01

The codes in brackets shown in the disassembly diagram express the name of materials.
The key o the codes and materials is shown on the table below.

| Code | Material |
|---|---|
| ABS | Acrylonitrile Butadiene Styrene |
| Fe | Steel |
| PS | Polystyrene |
| PC+ABS | Polycarbonate+Acrylonitrile Butadiene Styrene |

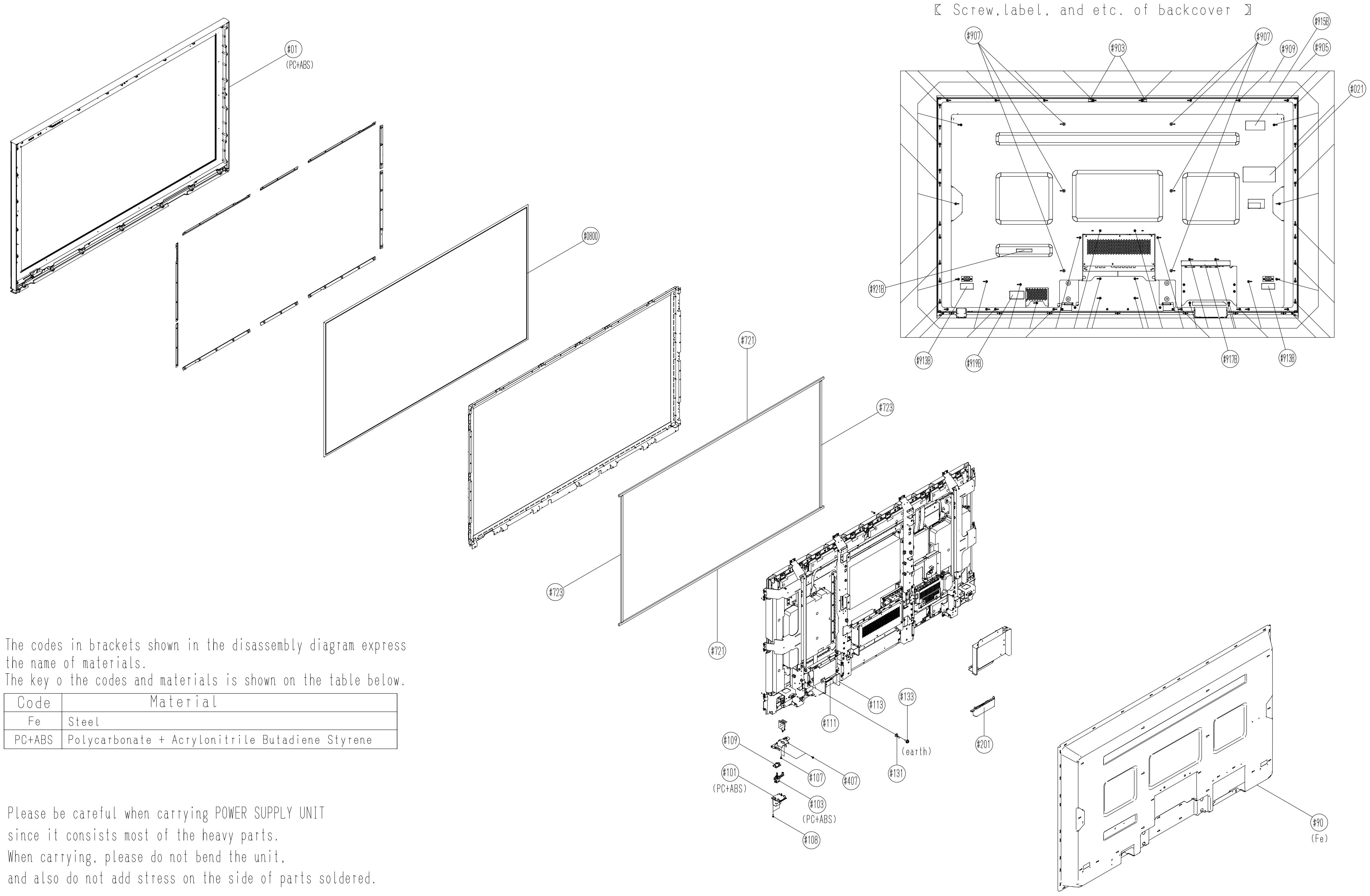
## *37PD5000*


〖 Screw,label, and etc. of backcover 〗
#715
#721
#717
#733
#743
#725
#733
#717
#721
#723
#715
#215
#215
#727
#717
#733
#731
#05VT
#733
#717
#735
#01
(PC)
#07
#429
#427
#429
#427
SPU-1
SPU
SPU-1
SPU
SDM-D
#713
#210
(Fe)
#121
#113
(PC+ABS)
#115
#145
#119
#143
#110
(PC+ABS)
#710
E02
#740
#740
#719
(Fe)
#740

The codes in brackets shown in the disassembly diagram express the name of materials.
The key o the codes and materials is shown on the table below.

| Code | Material |
|---|---|
| ABS | Acrylonitrile Butadiene Styrene |
| Fe | Steel |
| PS | Polystyrene |
| PC+ABS | Polycarbonate + Acrylonitrile Butadiene Styrene |
| PC | Polycarbonate |

## 14. Disassembly diagram


〖 Screw,label, and etc. of backcover 〗
#907
#903
#907
#915B
#909
#905
#021
#921B
#913B
#919B
#917B
#913B
#01
(PC+ABS)
#0800
#721
#723
#723
#721
#113
#133
#111
(earth)
#201
#109
#107
#407
#131
#101
(PC+ABS)
#103
(PC+ABS)
#108
#90
(Fe)

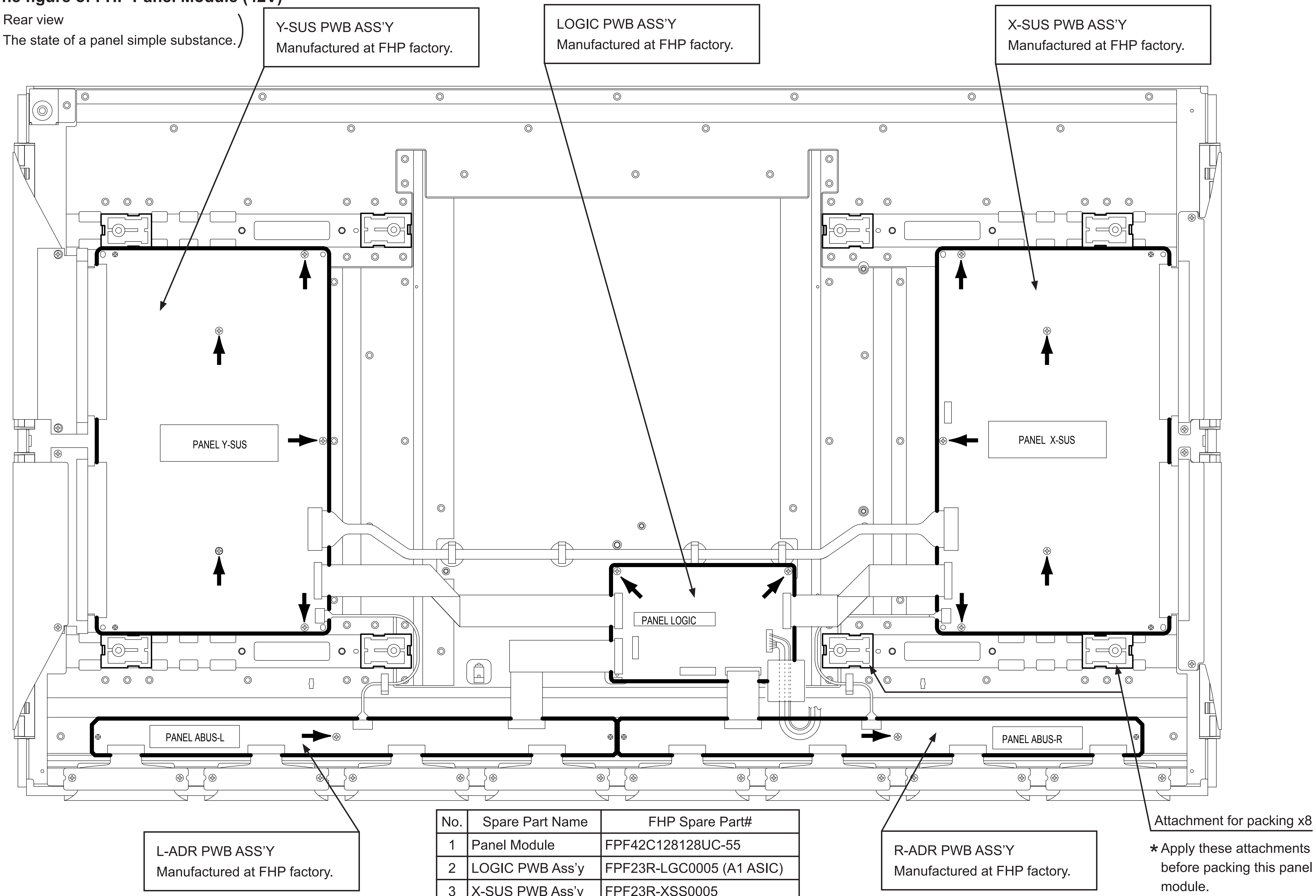
The codes in brackets shown in the disassembly diagram express the name of materials.
The key o the codes and materials is shown on the table below.

| Code | Material |
|---|---|
| Fe | Steel |
| PC+ABS | Polycarbonate + Acrylonitrile Butadiene Styrene |

Please be careful when carrying POWER SUPPLY UNIT
since it consists most of the heavy parts.
When carrying, please do not bend the unit,
and also do not add stress on the side of parts soldered.

## The figure of FHP Panel Module (42V)

(Rear view
The state of a panel simple substance.)


Y-SUS PWB ASS'Y
Manufactured at FHP factory.
LOGIC PWB ASS'Y
Manufactured at FHP factory.
X-SUS PWB ASS'Y
Manufactured at FHP factory.
PANEL Y-SUS
PANEL X-SUS
PANEL LOGIC
PANEL ABUS-L
PANEL ABUS-R
L-ADR PWB ASS'Y
Manufactured at FHP factory.
R-ADR PWB ASS'Y
Manufactured at FHP factory.
Attachment for packing x8
* Apply these attachments before packing this panel module.

| No. | Spare Part Name | FHP Spare Part# |
|---|---|---|
| 1 | Panel Module | FPF42C128128UC-55 |
| 2 | LOGIC PWB Ass'y | FPF23R-LGC0005 (A1 ASIC) |
| 3 | X-SUS PWB Ass'y | FPF23R-XSS0005 |
| 4 | Y-SUS PWB Ass'y | FPF23R-YSS0006 |
| 5 | A-BUS L PWB Ass'y | FPF23R-ABL0001 |
| 6 | A-BUS R PWB Ass'y | FPF23R-ABR0002 |

**The figure of FHP Panel Module (37V)**
(Rear view
The state of a panel simple substance.)

Attachment for packing
* Apply it before packing
this panel module.

Y-SUS PWB ASS'Y
Manufactured at FHP factory.

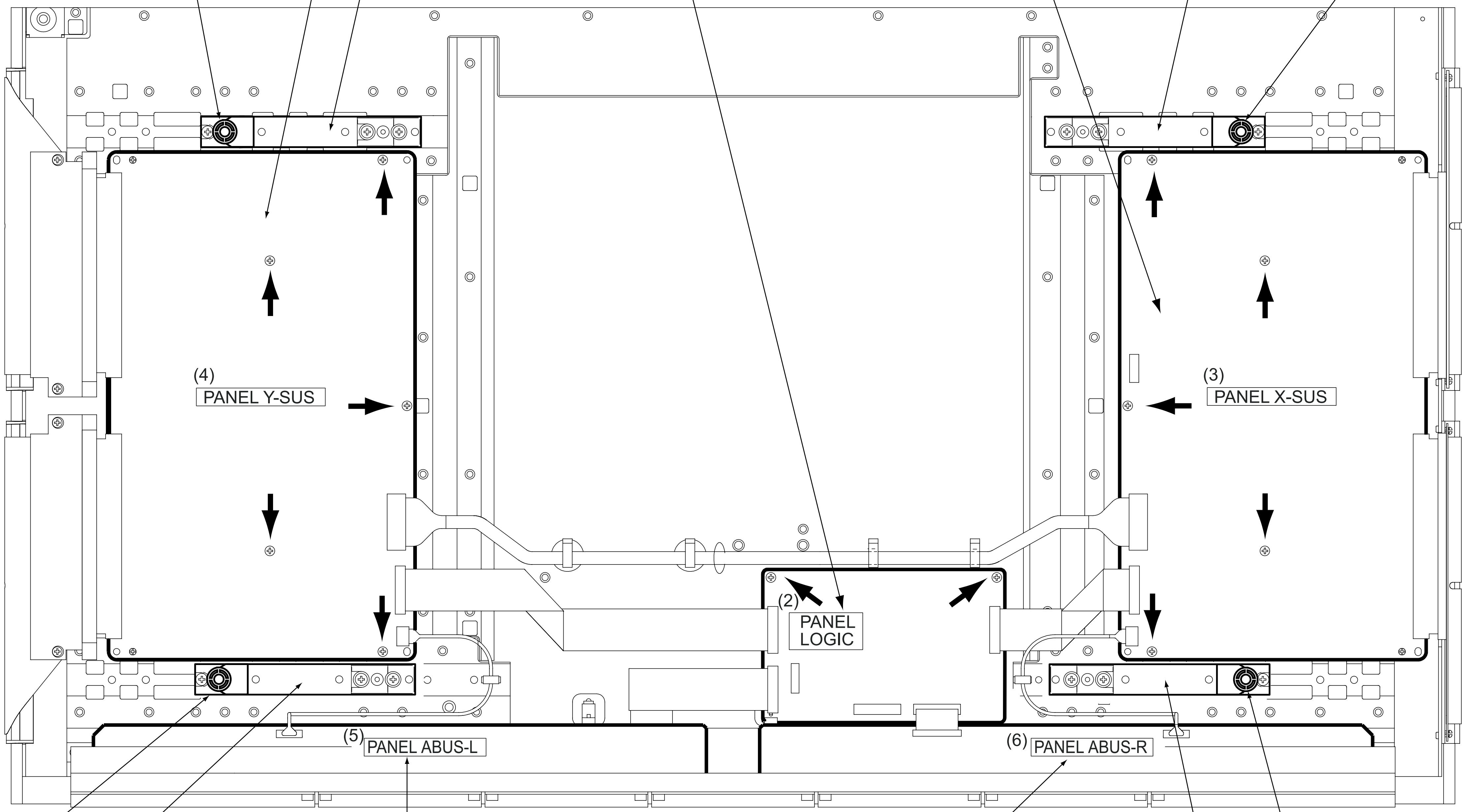
Handle

LOGIC PWB ASS'Y
Manufactured at FHP factory.

X-SUS PWB ASS'Y
Manufactured at FHP factory.

Handle

Attachment for packing
* Apply it before packing
this panel module.



Attachment for packing
* Apply it before packing
this panel module.

Handle for packing
* Apply it before packing
this panel module.

L-ADR PWB ASS'Y
Manufactured at FHP factory.

| No. | Spare Part Name | FHP Spare Part# |
|---|---|---|
| (1) | Panel Module | FPF37C128128UB-75 |
| (2) | LOGIC PWB Ass'y | FPF22R-LGC0003(A1 ASIC) |
| (3) | X-SUS PWB Ass'y | FPF22R-XSS0003 |
| (4) | Y-SUS PWB Ass'y | FPF22R-YSS0004 |
| (5) | A-BUS L PWB Ass'y | FPF22R-ABL0005 |
| (6) | A-BUS R PWB Ass'y | FPF22R-ABR0006 |

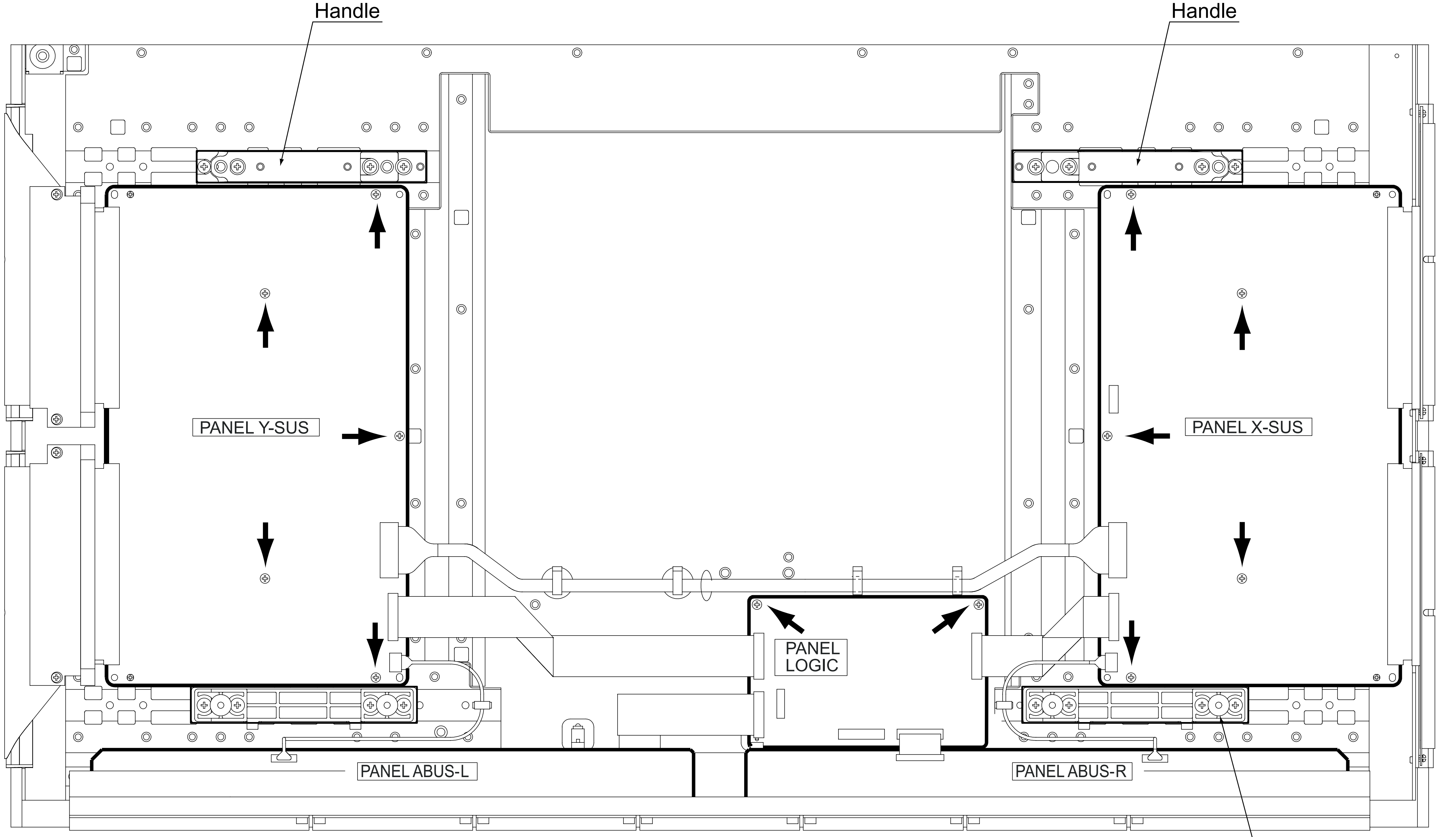
R-ADR PWB ASS'Y
Manufactured at FHP factory.

Attachment for packing
* Apply it before packing
this panel module.

Handle for packing
* Apply it before packing
this panel module.

**Panel Module (37V)**

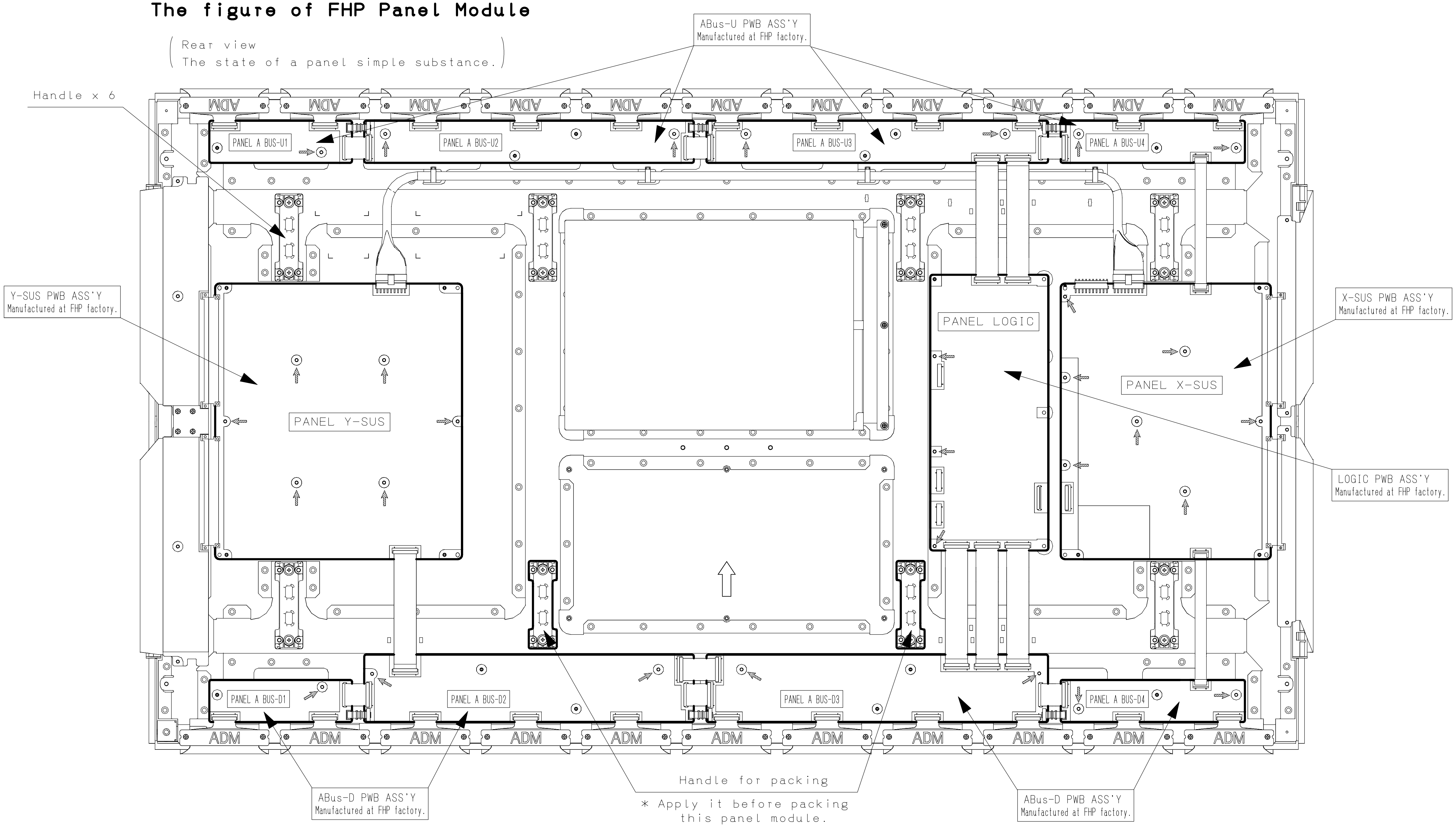
[The assembled form in a product (before servicing)]


Handle
Handle
PANEL Y-SUS
PANEL X-SUS
PANEL LOGIC
PANEL ABUS-L
PANEL ABUS-R

Panel Holder x2

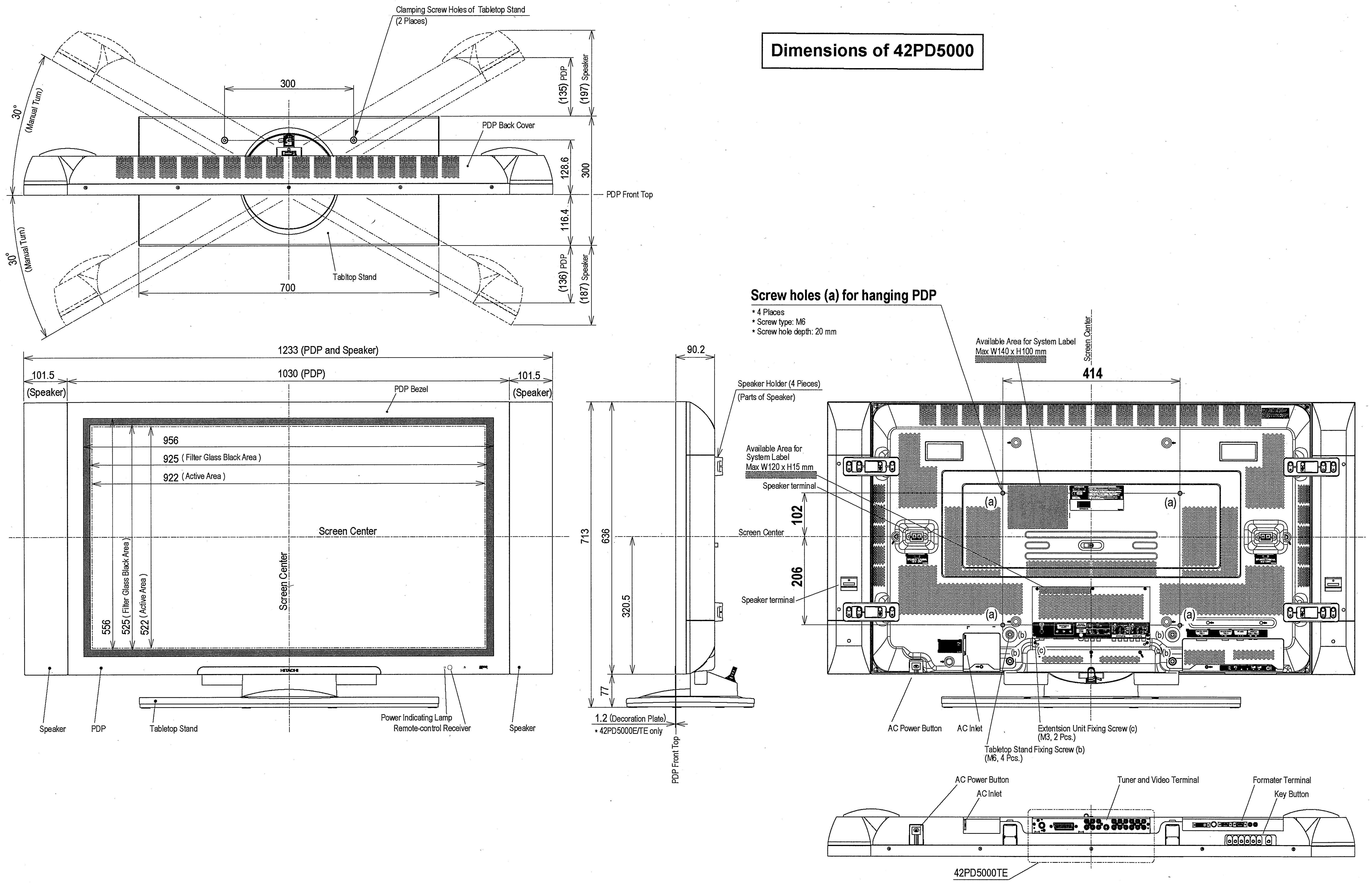
* Remove these holders and apply the handles / attachments for packing.

## The figure of FHP Panel Module


Rear view
The state of a panel simple substance.
ABus-U PWB ASS'Y
Manufactured at FHP factory.
Handle x 6
ADM
PANEL A BUS-U1
PANEL A BUS-U2
PANEL A BUS-U3
PANEL A BUS-U4
Y-SUS PWB ASS'Y
Manufactured at FHP factory.
PANEL Y-SUS
PANEL LOGIC
PANEL X-SUS
X-SUS PWB ASS'Y
Manufactured at FHP factory.
LOGIC PWB ASS'Y
Manufactured at FHP factory.
PANEL A BUS-D1
PANEL A BUS-D2
PANEL A BUS-D3
PANEL A BUS-D4
ABus-D PWB ASS'Y
Manufactured at FHP factory.
Handle for packing
* Apply it before packing
this panel module.
ABus-D PWB ASS'Y
Manufactured at FHP factory.

| No. | Spare Part Name | FHP Spare Part# |
|---|---|---|
| 1 | Panel Module | FPF42C128128UC-55 |
| 2 | LOGIC PWB | FPF23R-LGC0005 (A1 ASIC) |
| 3 | X-SUS PWB | FPF23R-XSS0005 |
| 4 | Y-SUS PWB | FPF23R-YSS0006 |
| 5 | A-BUS L PWB | FPF23R-ABL0001 |
| 6 | A-BUS R PWB | FPF23R-ABR0002 |

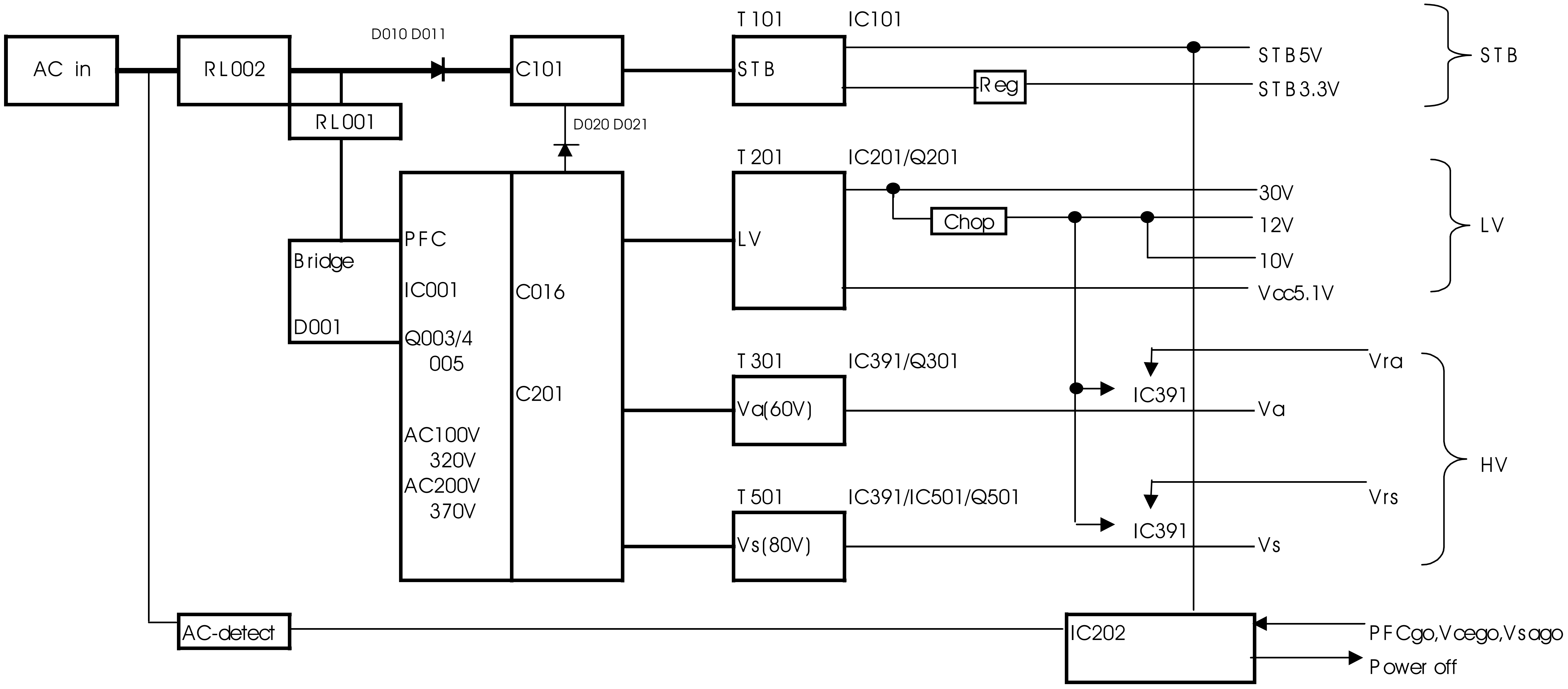
# Dimensions of 42PD5000


Clamping Screw Holes of Tabletop Stand
(2 Places)
300
PDP Back Cover
30°
(Manual Turn)
30°
(Manual Turn)
(135) PDP
(197) Speaker
128.6
300
PDP Front Top
116.4
(136) PDP
(187) Speaker
Tabltop Stand
700
1233 (PDP and Speaker)
101.5
(Speaker)
1030 (PDP)
101.5
(Speaker)
PDP Bezel
956
925 ( Filter Glass Black Area )
922 ( Active Area )
Screen Center
Screen Center
556
525 ( Filter Glass Black Area )
522 ( Active Area )
HITACHI
Speaker
PDP
Tabletop Stand
Power Indicating Lamp
Remote-control Receiver
Speaker
90.2
713
636
320.5
77
1.2 (Decoration Plate)
* 42PD5000E/TE only
PDP Front Top
Speaker Holder (4 Pieces)
(Parts of Speaker)
Screw holes (a) for hanging PDP
* 4 Places
* Screw type: M6
* Screw hole depth: 20 mm
Available Area for System Label
Max W140 x H100 mm
Screen Center
414
Available Area for
System Label
Max W120 x H15 mm
Speaker terminal
102
Screen Center
206
Speaker terminal
(a)
(a)
(a)
(a)
(b)
(b)
(b)
(b)
(c)
AC Power Button
AC Inlet
Extentsion Unit Fixing Screw (c)
(M3, 2 Pcs.)
Tabletop Stand Fixing Screw (b)
(M6, 4 Pcs.)
AC Power Button
AC Inlet
Tuner and Video Terminal
Formater Terminal
Key Button
42PD5000TE

**THE UPDATED PARTS LIST**

**FOR THIS MODEL IS**

**AVAILABLE ON ESTA**


AC in
RL002
RL001
D010 D011
C101
D020 D021
Bridge
D001
PFC
IC001
Q003/4
005
AC100V
320V
AC200V
370V
C016
C201
T101
IC101
STB
Reg
STB5V
STB3.3V
STB
T201
IC201/Q201
LV
Chop
30V
12V
10V
Vcc5.1V
LV
T301
IC391/Q301
Va(60V)
IC391
Vra
Va
T501
IC391/IC501/Q501
Vs(80V)
IC391
Vrs
Vs
HV
AC-detect
IC202
PFCgo,Vcego,Vsago
Power off

| SM005 | Power Supply Block Diagram | HITACHI |
|---|---|---|

### 1.AC input

| No | CN61 |
|---|---|
| 1 | AC(L) |
| 2 | NC |
| 3 | AC(N) |
| 4 | NC |
| 5 | NC |
| 6 | FG |

### 2.signal 1

| No | CN63 |
|---|---|
| 1 | STB5V |
| 2 | NC |
| 3 | STB3.3V |
| 4 | Power off |
| 5 | GND |

### 3.Signal 2

| No | CNPPS |
|---|---|
| 1 | 30V |
| 2 | GND |
| 3 | GND |
| 4 | 5V |
| 5 | 5V |
| 6 | GND |
| 7 | GND |
| 8 | 12V |
| 9 | 12V |
| 10 | GND |
| 11 | GND |
| 12 | 10V |
| 13 | 10V |

### 4.Panel 1

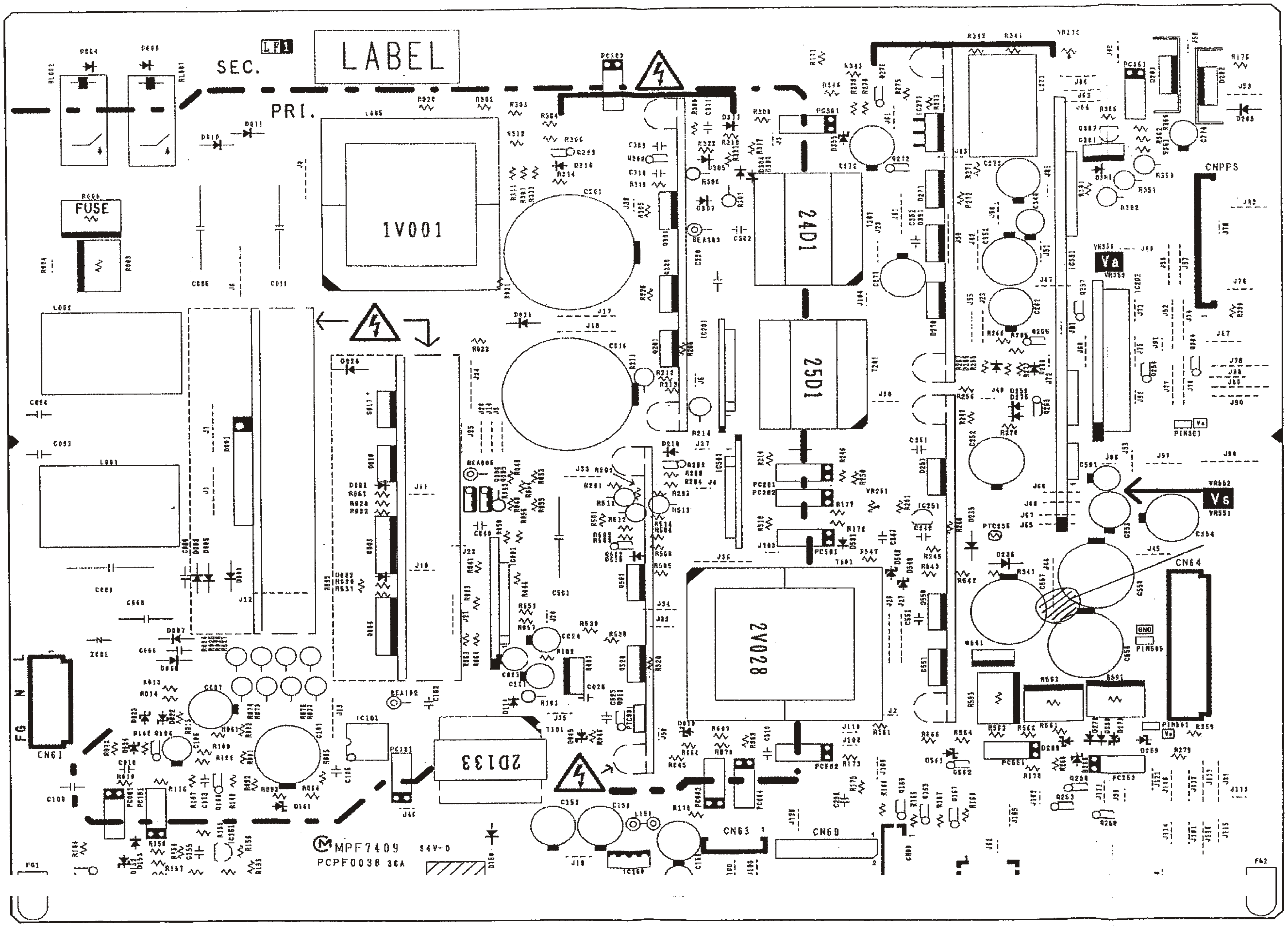
| No | CN64 |
|---|---|
| 1 | Va |
| 2 | NC |
| 3 | Vcc |
| 4 | GND |
| 5 | GND |
| 6 | GND |
| 7 | NC |
| 8 | Vs |
| 9 | Vs |
| 10 | Vs |

### 5.Panel 4

| No | CN68 |
|---|---|
| 1 | STB3.3V |
| 2 | NC |
| 3 | GND |
| 4 | GND |
| 5 | NC |
| 6 | Vcc |

### 6.Panel 5

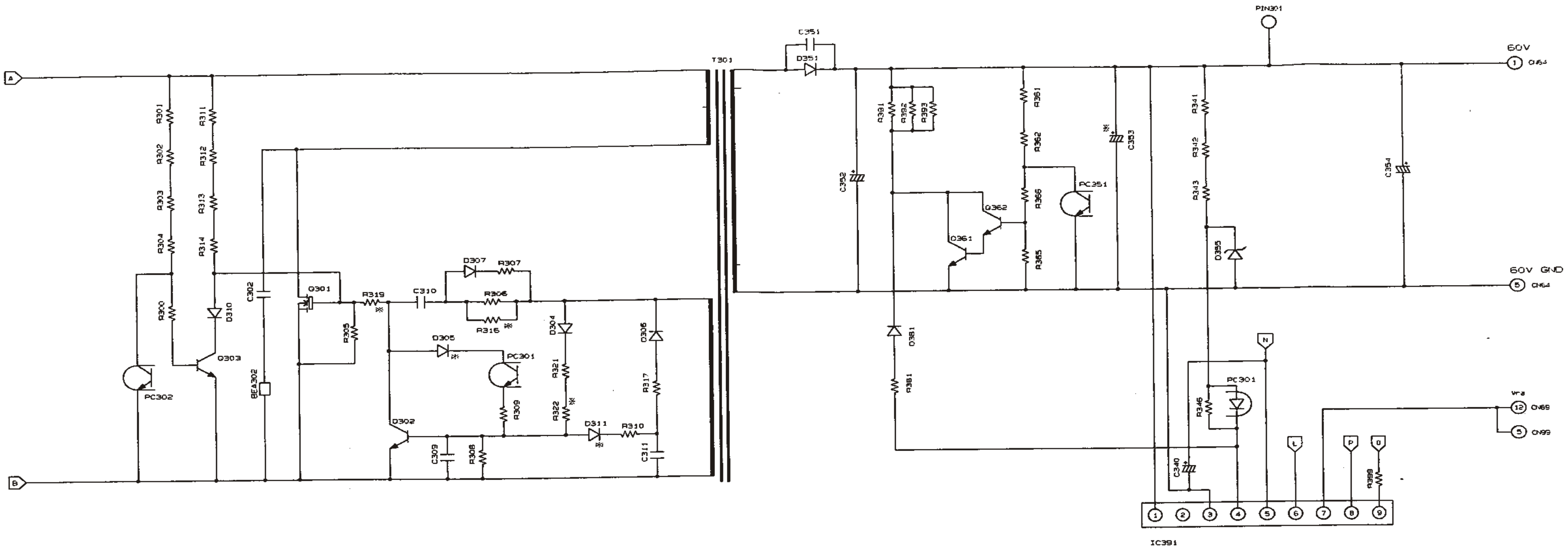
| No | CN69 |
|---|---|
| 1 | NC |
| 2 | NC |
| 3 | NC |
| 4 | NC |
| 5 | GND |
| 6 | Vsago |
| 7 | GND |
| 8 | Vcego |
| 9 | GND |
| 10 | PFCgo |
| 11 | GND |
| 12 | Vra |
| 13 | GND |
| 14 | Vrs |
| 15 | GND |
| 16 | NC |
| 17 | GND |
| 18 | NC |
| 19 | GND |
| 20 | NC |


LABEL
LF1
SEC.
PRI.
FUSE
1V001
24D1
25D1
2V028
2D133
CN61
L
N
FG
CN63
CN69
CN64
CNPPS
Va
Vs
GND
PIN505
PIN503
PIN501
MPF7409
PCPF0038 30A
S4V-D
IC101
IC201
IC251
IC271
IC501
IC202
IC501
PC101
PC201
PC202
PC301
PC302
PC351
PC501
PC502
PC503
PC504
PC551
PC253
T201
T301
T501
T101
L001
L002
L003
L151
L271
VR551
VR552
VR271
VR251
VR351
VR352
PTC236
BEA102
BEA302
BEA006
F01
F02

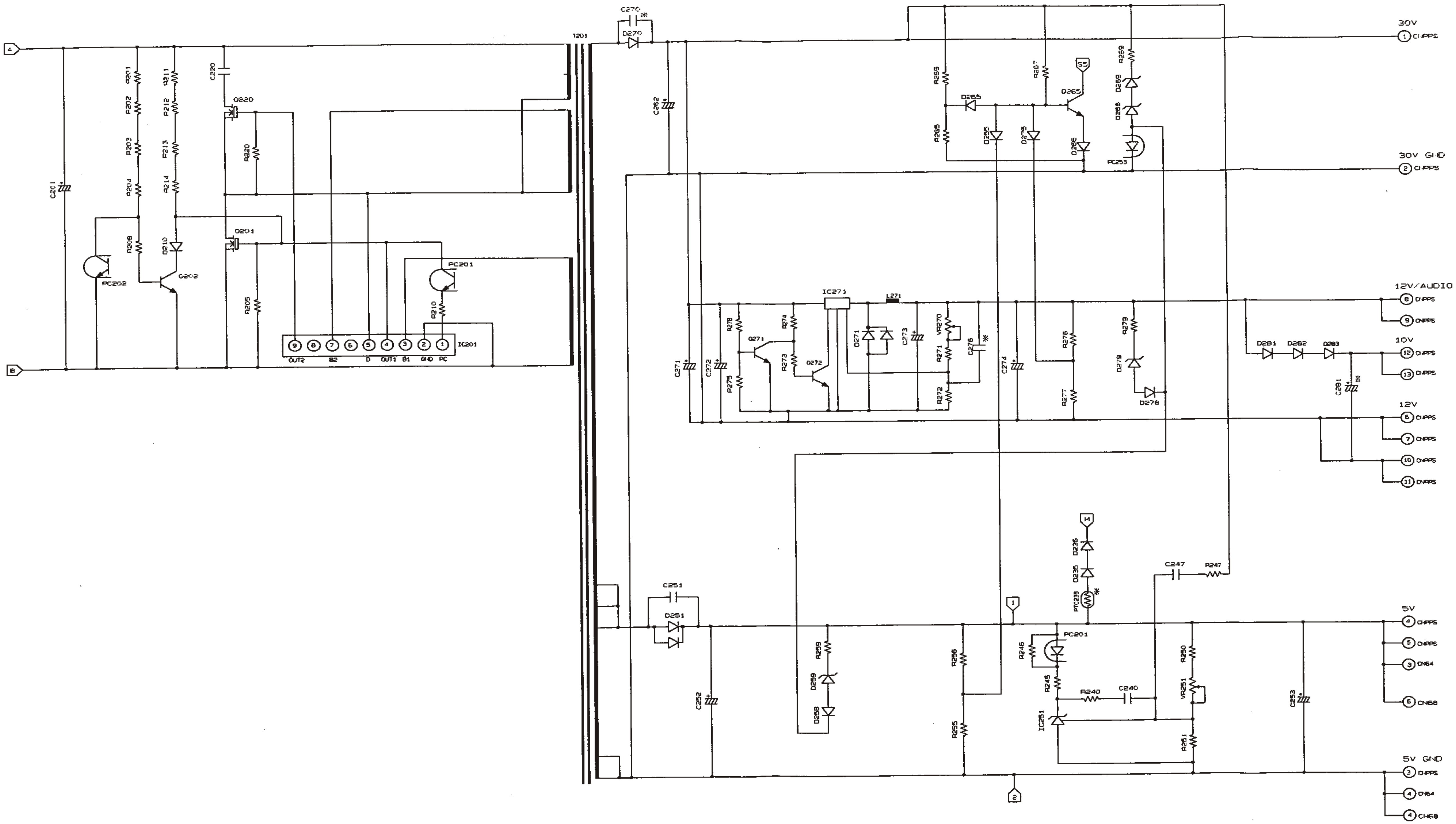
SM005

# Power Supply Circuit Board

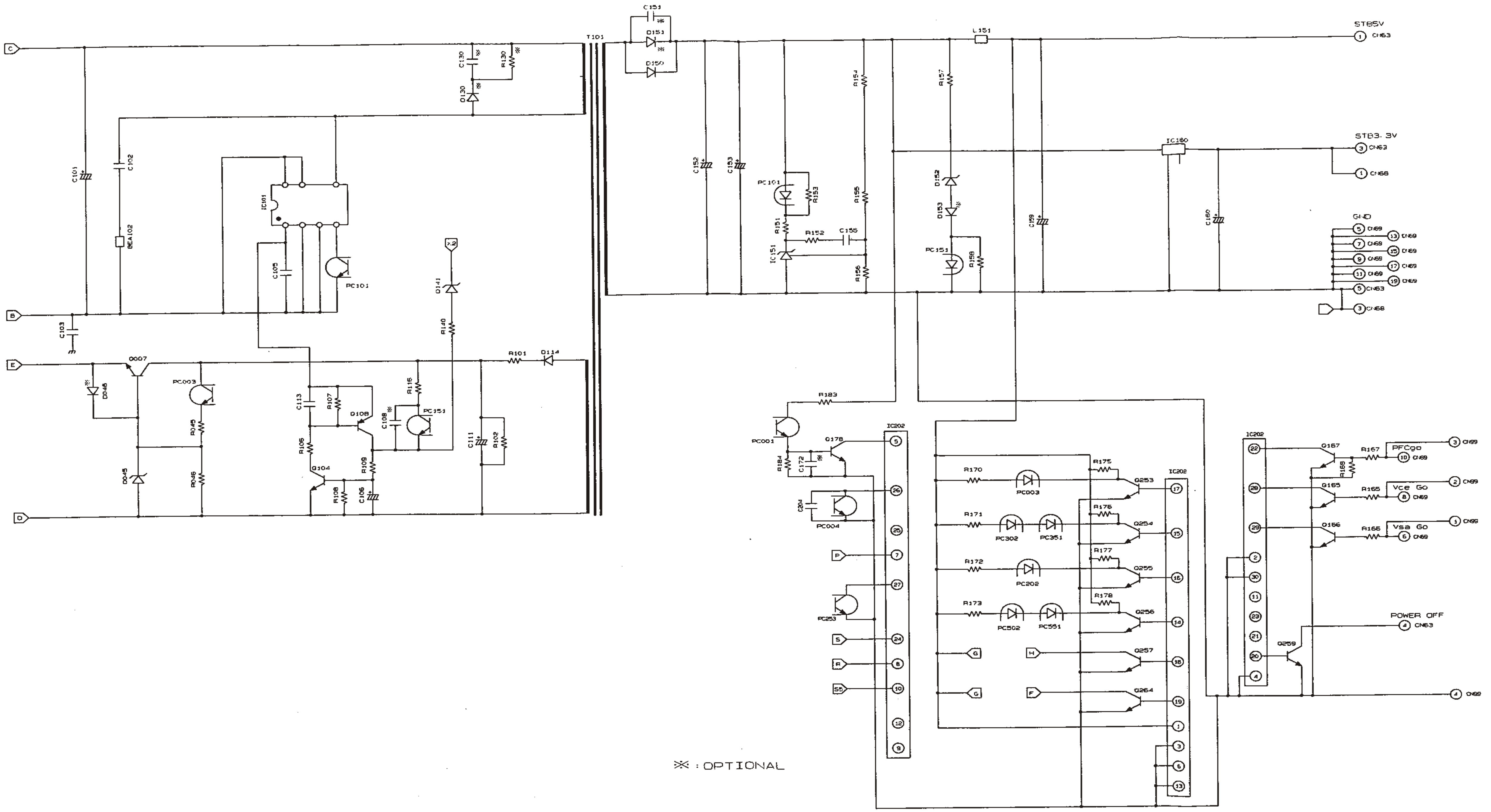
HITACHI


A
B
R301
R302
R303
R304
R300
R311
R312
R313
R314
D310
Q303
PC302
C302
BEA302
Q301
R305
R319
※
C310
D307
R307
R306
R316
※
D305
※
PC301
R309
D304
R321
R322
※
Q302
C309
R308
D311
※
R310
D306
R317
C311
T301
C351
D351
C352
R391
R392
R393
D381
R381
Q361
Q362
R361
R362
R366
R365
PC351
※
C353
PIN301
R341
R342
R343
D355
C354
60V
1
CN64
60V GND
5
CN64
N
PC301
R346
C340
L
P
D
R399
Vra
12
CN69
5
CN99
1
2
3
4
5
6
7
8
9
IC391

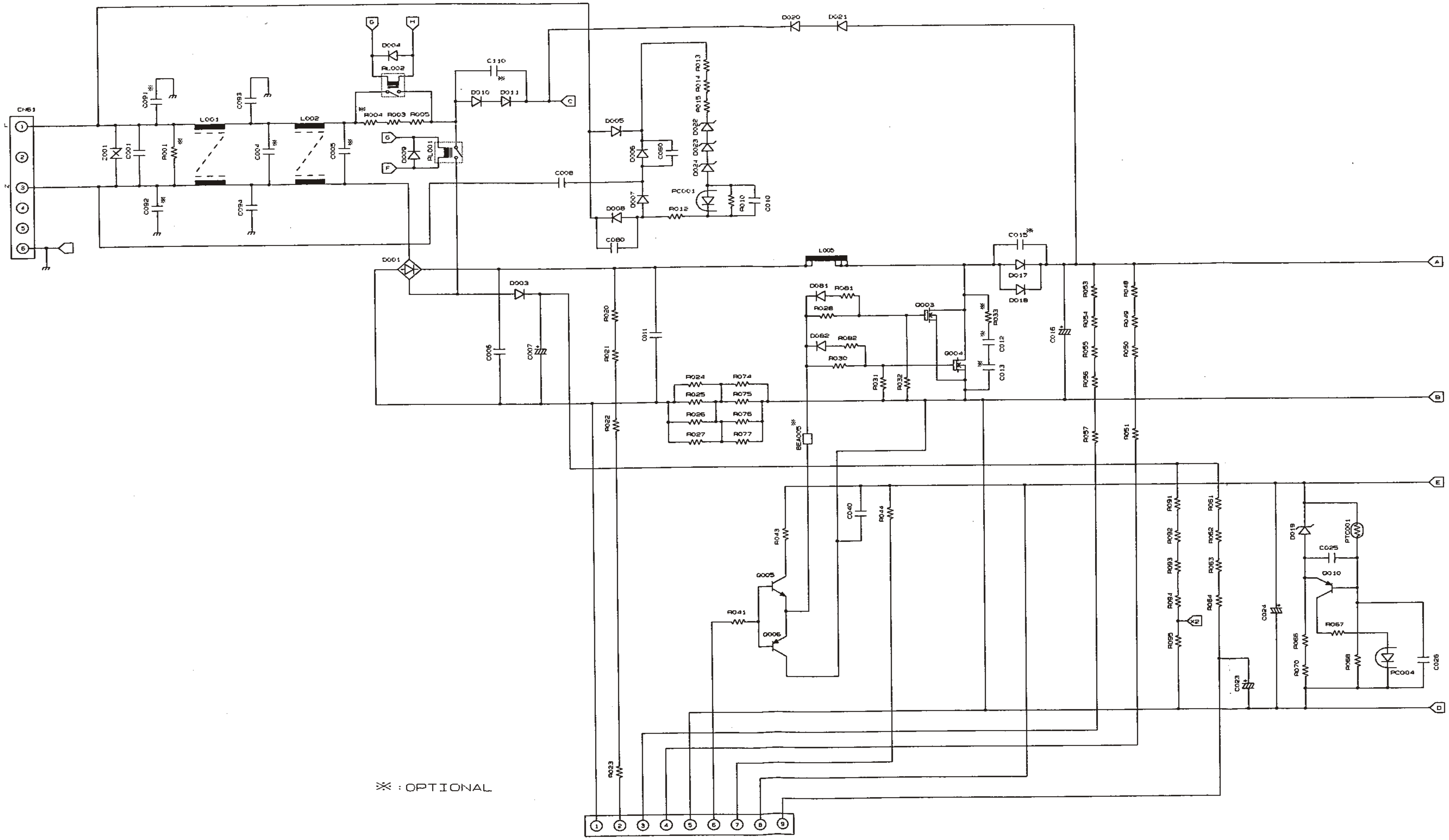
※ : OPTIONAL


4
8
C201
R201
R202
R203
R204
R208
PC202
R211
R212
R213
R214
D210
Q202
C220
Q220
R220
Q201
R205
PC201
R210
IC201
9
8
7
6
5
4
3
2
1
OUT2
B2
D
OUT1
B1
GND
PC
T201
C270
※
D270
C262
30V
1 CNPPS
30V GND
2 CNPPS
R265
R266
D265
D255
D275
R267
S5
Q265
D266
R269
D269
D268
PC253
IC271
L271
R278
Q271
R274
R273
Q272
R275
C271
C272
D271
C273
VR270
R271
R272
C276
C274
R276
R277
R279
D279
D278
12V/AUDIO
8 CNPPS
9 CNPPS
D281
D282
D283
10V
12 CNPPS
13 CNPPS
C281
12V
6 CNPPS
7 CNPPS
10 CNPPS
11 CNPPS
M
D236
D235
PTC235
C247
R247
C251
D251
C252
R259
D259
D258
R256
R255
1
PC201
R246
R245
R240
C240
IC251
R250
VR251
R251
C253
2
5V
4 CNPPS
5 CNPPS
3 CN64
6 CN68
5V GND
3 CNPPS
4 CN64
4 CN68

※ : OPTIONAL


C
B
E
D
T101
C101
C102
C103
BEA102
IC101
C105
PC101
C130
R130
D130
D141
R140
R101
D114
Q007
D046
D045
PC003
R045
R046
C113
R107
R105
Q108
R115
C108
PC151
Q104
R109
R108
C106
C111
R102
C151
D151
D150
C152
C153
PC101
R153
R151
R152
C155
IC151
R154
R155
R156
L151
R157
D152
D153
PC151
R158
C159
IC160
C160
STB5V
CN63
STB3. 3V
CN63
CN68
GND
CN69
CN63
CN68
R183
PC001
Q178
R184
C172
C204
PC004
PC253
IC202
P
S
R
S5
R170
R171
R172
R173
PC003
PC302
PC351
PC202
PC502
PC551
R175
R176
R177
R178
Q253
Q254
Q255
Q256
Q257
Q264
G
H
F
Q167
Q165
Q166
Q259
R167
R168
R165
R166
PFCgo
Vce Go
Vsa Go
POWER OFF
CN69
CN63
CN69

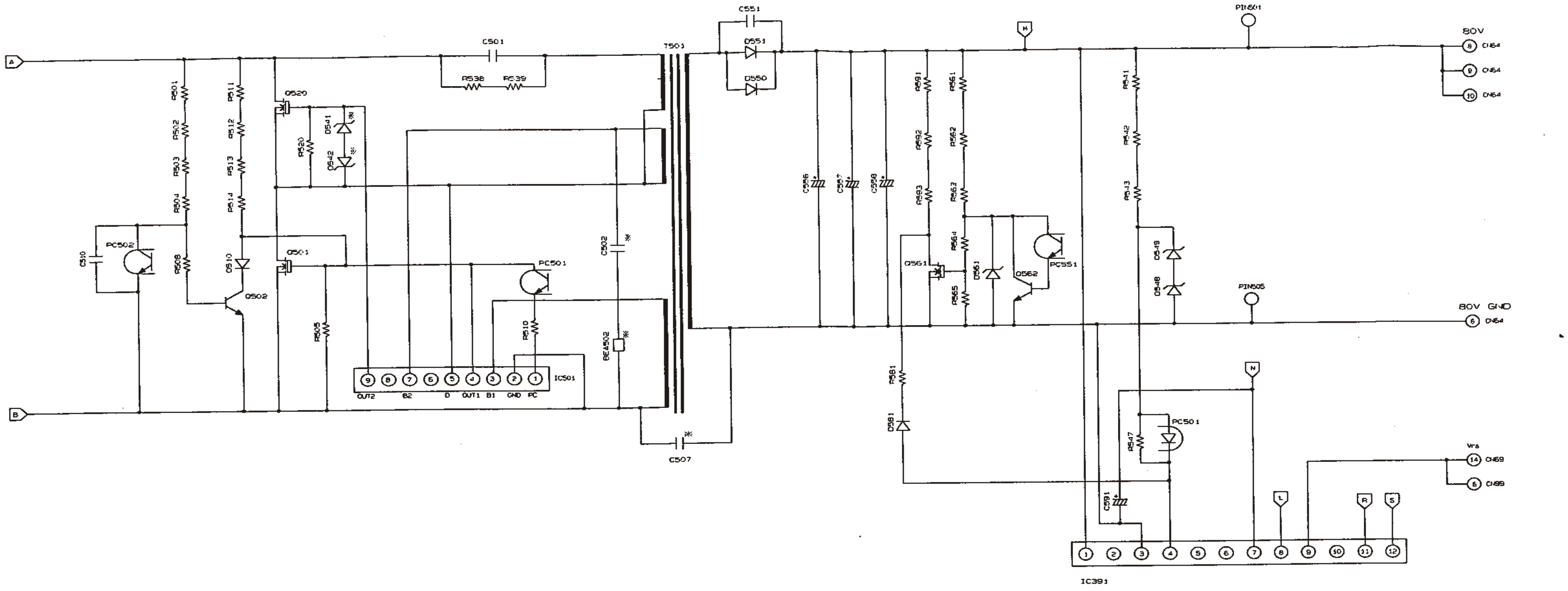
※ : OPTIONAL


CN51
①
②
③
④
⑤
⑥
Z001
C001
C091
C092
R001
L001
C093
C094
C004
L002
C005
G
H
D004
RL002
R004
R003
R005
D009
RL001
F
C110
D010
D011
C
C008
D005
D006
C090
D007
D008
C080
R012
PC001
R010
C010
R013
R014
R015
D022
D023
D024
D020
D021
D001
D003
C006
C007
R020
R021
R022
C011
R024
R074
R025
R075
R026
R076
R027
R077
BEAD05
L005
D081
R081
R028
Q003
D082
R082
R030
R031
R032
Q004
R033
C012
C013
C015
D017
D018
C016
R053
R054
R055
R056
R057
R048
R049
R050
R051
A
B
E
D
C040
R044
R043
Q005
R041
Q006
R091
R092
R093
R094
R095
X2
R061
R062
R063
R064
C024
C023
D019
PTC001
C025
Q010
R066
R067
R070
R068
PC004
C026
R023
※:OPTIONAL
①
②
③
④
⑤
⑥
⑦
⑧
⑨

SM005

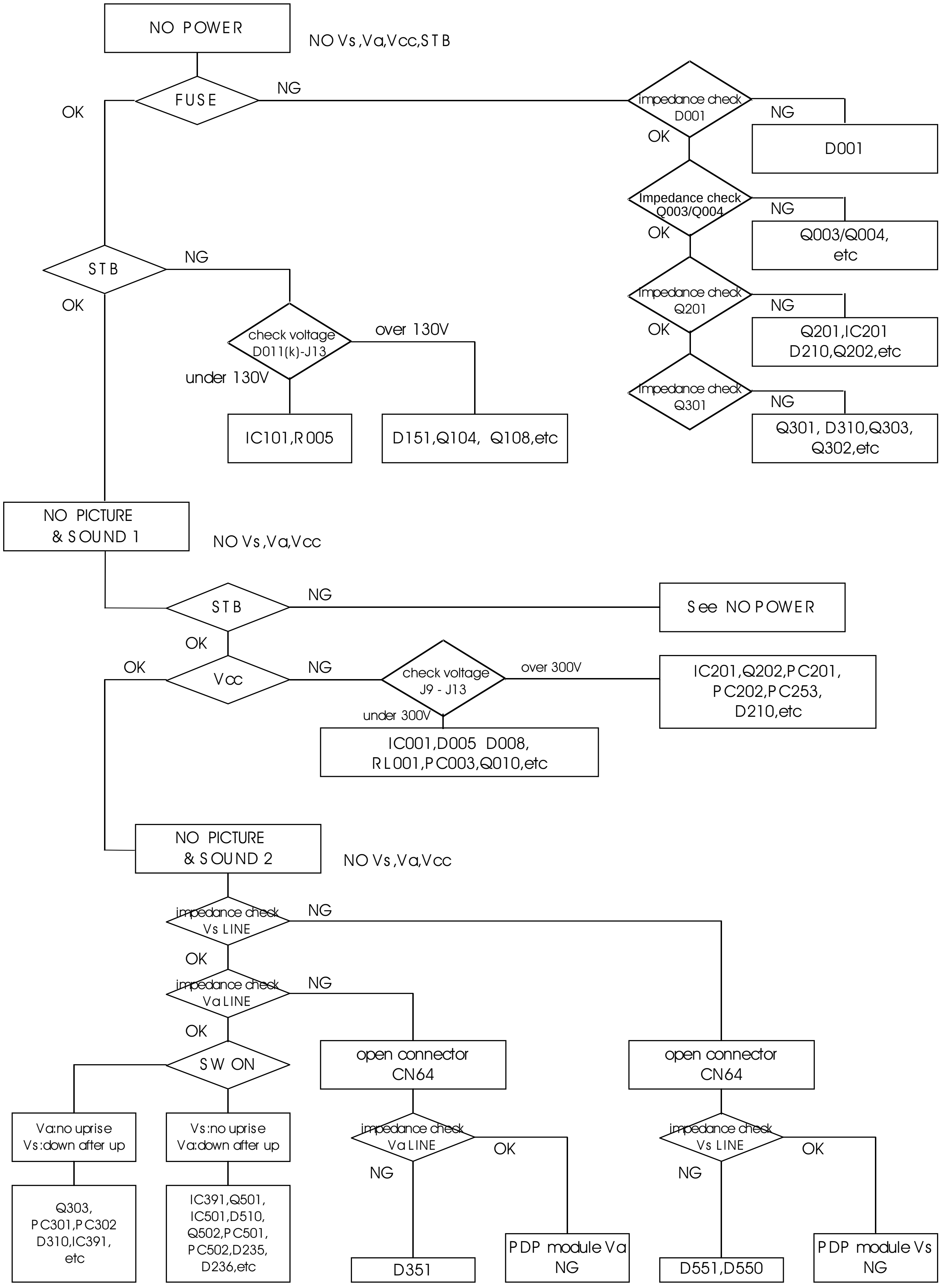
# Power Supply Circuit - 4 of 5

HITACHI


A
B
R501
R502
R503
R504
R508
PC502
C510
R511
R512
R513
R514
D510
Q502
Q520
R520
D541 ※
D542 ※
Q501
R505
C501
R538
R539
PC501
R510
IC501
9 8 7 6 5 4 3 2 1
OUT2
B2
D
OUT1
B1
GND
PC
C502 ※
BEA502 ※
T501
C507 ※
C551
D551
D550
C556
C557
C558
R591
R592
R593
R561
R562
R563
R564
R565
Q561
D561
Q562
PC551
K
PIN501
R541
R542
R543
D549
D548
PIN505
80V
8 CN64
9 CN64
10 CN64
80V GND
6 CN64
R581
D581
N
PC501
R547
C591
Vrs
14 CN69
6 CN99
L
R
S
IC391
1 2 3 4 5 6 7 8 9 10 11 12

※ : OPTIONAL

# Power Supply Circuit - 5 of 5


NO POWER
NO Vs,Va,Vcc,STB
FUSE
NG
OK
impedance check D001
NG
D001
OK
Impedance check Q003/Q004
NG
Q003/Q004, etc
OK
impedance check Q201
NG
Q201,IC201 D210,Q202,etc
OK
impedance check Q301
NG
Q301, D310,Q303, Q302,etc
STB
NG
OK
check voltage D011(k)-J13
over 130V
under 130V
IC101,R005
D151,Q104, Q108,etc
NO PICTURE & SOUND 1
NO Vs,Va,Vcc
STB
NG
See NO POWER
OK
Vcc
NG
OK
check voltage J9 - J13
over 300V
IC201,Q202,PC201, PC202,PC253, D210,etc
under 300V
IC001,D005 D008, RL001,PC003,Q010,etc
NO PICTURE & SOUND 2
NO Vs,Va,Vcc
impedance check Vs LINE
NG
OK
impedance check Va LINE
NG
OK
SW ON
Va:no uprise Vs:down after up
Vs:no uprise Va:down after up
Q303, PC301,PC302 D310,IC391, etc
IC391,Q501, IC501,D510, Q502,PC501, PC502,D235, D236,etc
open connector CN64
impedance check Va LINE
OK
NG
D351
PDP module Va NG
open connector CN64
impedance check Vs LINE
OK
NG
D551,D550
PDP module Vs NG

Vcc LINE is down, when Vs,Va LINE is down in MPF7409 L.

Power Supply Unit Troubleshooting

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